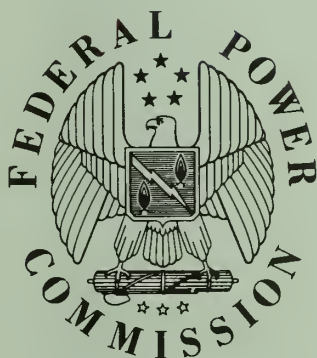


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STEAM-ELECTRIC PLANT AIR AND WATER QUALITY CONTROL DATA

**FOR THE YEAR ENDED DECEMBER 31, 1971
BASED ON FPC FORM NO.67**

SUMMARY REPORT



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JUNE 1974



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FOR THE YEAR ENDED DECEMBER 31, 1971
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CONTENTS

Page

PREFACE	v
DISCUSSION OF FORM 67 DATA	vii
a. Growth of the Industry	
b. Fuel Quality	
c. Air Pollution Control	
d. Water Pollution Control	

AIR QUALITY DATA AGGREGATED BY STATE AND GEOGRAPHIC REGION AND BY AIR QUALITY CONTROL REGION

Table 1A	Fuel Consumption and Quality, By Region and State, 1970	1
Table 1B	Fuel Consumption and Quality, By Air Quality Control Region, 1970	2
Table 2A	Estimated Annual Emissions, By Region and State, 1970	5
Table 2B	Estimated Annual Emissions, By Air Quality Control Region, 1970	6
Table 3A	Ash and Sulfur Collection and Disposal, By Region and State, 1970	9
Table 3B	Ash and Sulfur Collection and Disposal, By Air Quality Control Region, 1970	10
Table 4A	Air Quality Control Expenses, By Region and State, 1970	13
Table 4B	Air Quality Control Expenses, By Air Quality Control Region, 1970	14
Table 5A	Installed Costs of Air Pollution Control Equipment, By Region and State, 1970	17
Table 5B	Installed Costs of Air Pollution Control Equipment, By Air Quality Control Region, 1970	18

WATER QUALITY DATA AGGREGATED BY STATE AND GEOGRAPHIC REGION AND BY WATER RESOURCE REGION

Table 6A	Number of Plants, Capacities, and Types of Cooling, By Region and State, 1970	21
Table 6B	Number of Plants, Capacities, and Types of Cooling, By Water Resource Region, 1970	22
Table 7A	Average Cooling Water Use, By Region and State, 1970	23
Table 7B	Average Cooling Water Use, By Water Resource Region, 1970	24
Table 8A	Use of Chemical Additives, By Region and State, 1970	25
Table 8B	Use of Chemical Additives, By Water Resource Region, 1970	26

	Page
Table 9A Water Treatment Expenses, and Cooling Facility Costs, By Region and State, 1970	27
Table 9B Water Treatment Expenses, and Cooling Facility Costs, By Water Resource Region, 1970	28
INDIVIDUAL PLANT DATA	
Table 10	29
Footnotes to Table 10	167
APPENDICES	
APPENDIX 1 Alphabetical Index of Plants	
APPENDIX 2 Map of Air Quality Control Regions	
APPENDIX 3 Map of Water Resource Regions	
APPENDIX 4 Map of Geographic Divisions	

PREFACE

This publication, covering the calendar year 1971, is the third summary in a series based on FPC Form 67. 1/ For purposes of this publication Form 67 information is supplemented with plant-by-plant annual generation and plant heat rate data from FPC Form 1. 2/

The first summary (FPC publication number S-229), published in February of 1973, covered the calendar year 1969. The second summary (FPC S-233), published in July 1973, covered 1970. This series of summaries represents an effort by the Commission to gather and disseminate annually reliable and complete information about the nationwide impact of steam-electric power plants on the environment. The methodology employed in the preparation of this and the earlier summaries is explained in detail in the 1969 Summary Report.

All the summary reports in this series may be obtained by mail from the Superintendent of Documents, Government Printing Office, Washington, D. C. 20402, or they may be purchased over the counter at the GPO bookstore. The prices of the publication are:

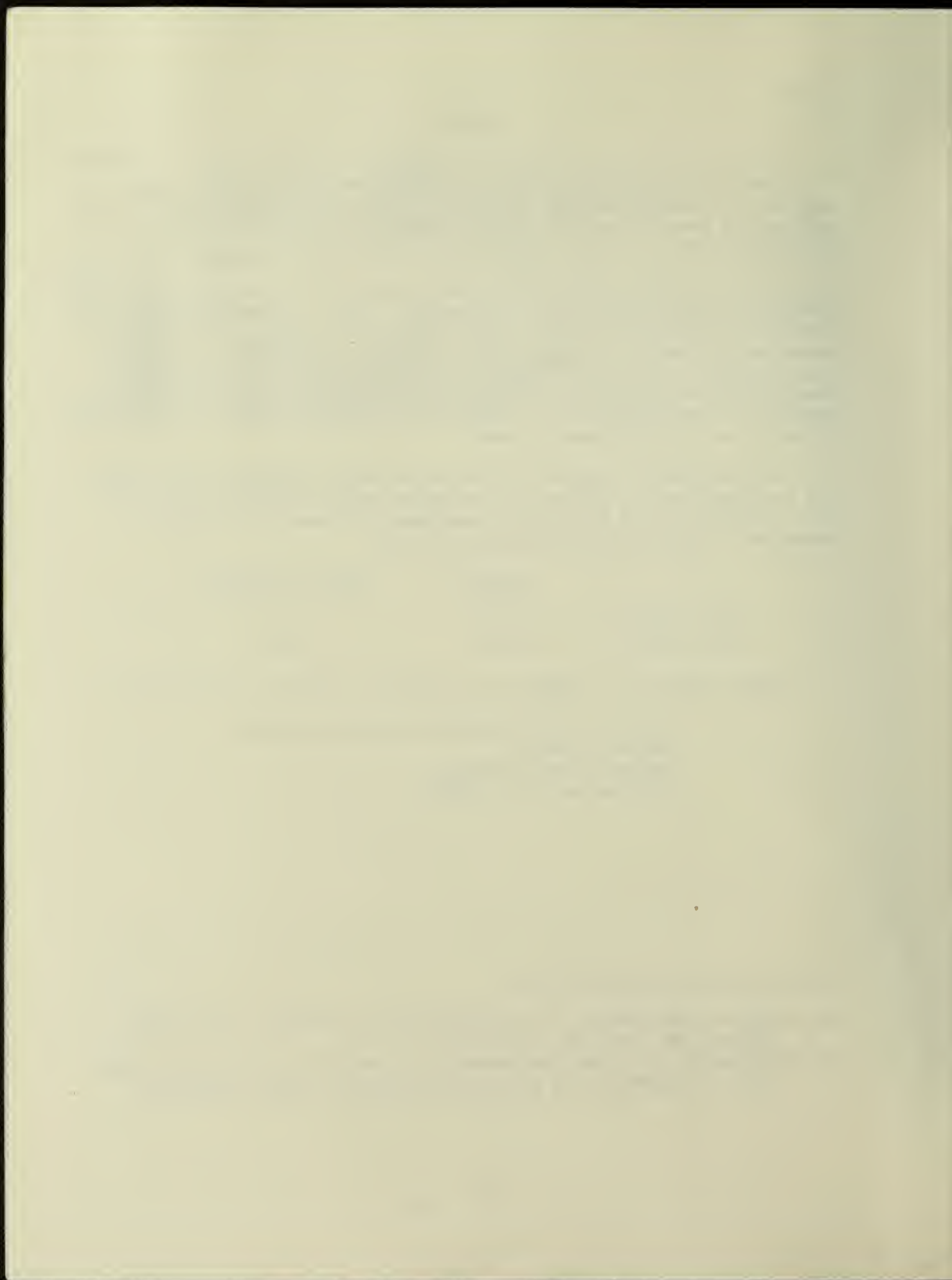
	<u>By Mail</u>	<u>Over the Counter</u>
S-229 (1969)	\$2.60	\$2.25
S-233 (1970)	\$1.95	\$1.95

Please address all comments and inquiries regarding this summary to:

Section of Fuel and Environmental Analysis
Bureau of Power
Federal Power Commission
Washington, D. C. 20426

1/ A Copy of FPC Form No. 67 is Included as an Appendix to the 1969 Summary, the First in this Series.

2/ FPC Form No. 1 is completed annually by electric utilities and deals with the financial and generating aspects of their operations.



DISCUSSION OF FORM 67 DATA

This discussion is based on data contained in the Summary for 1971 and, where appropriate, it includes a comparison with data presented in the summaries for 1969 and 1970. ^{3/} The comparison serves as a basis for noting significant differences among the three years and possible trends in the quantities measured.

As in the first two issues, the 1971 data is displayed in 18 summary tables (nine pairs): ten tables (five pairs) summarize air quality data and eight tables (four pairs) summarize water quality data, respectively. The first in each pair of air quality tables gives state totals and a national total for each quantity measured. The second table in each pair presents the totals for each Air Quality Control Region designated by the Environmental Protection Agency. Similarly, the first in each pair of water quality tables gives state and national totals, while the second in each pair presents the totals for each Water Resource Region.

Also included are: 1) 138 page detailed table with individual plant data for each of the 689 plants covered by this report; 2) An alphabetical listing of the plants (Appendix 1); 3) A map showing each Air Quality Control Region (Appendix 2); 4) A map showing the Water Resource Regions (Appendix 3); and 5) A map outlining the major Geographic Divisions of the United States (Appendix 4).

a. Growth of the Industry

Consistent with the continuing growth of the industry, steam-electric plants generated more electricity, consumed more primary energy and required more cooling capacity than ever before. Electric power generation in steam-electric units, both fossil-fired and nuclear covered by this report (including Puerto Rico and the Virgin Islands) was about 1,294 million megawatt hours, up 5.2 percent from 1,230 million megawatt hours

^{3/} The Summary for 1969 was the first in the series. It included a detailed explanation of the methodology employed in estimating emissions of particulates, sulfur dioxide, and oxides of nitrogen along with other data editing and computational routines. The explanation is not repeated here.

the previous year. ^{4/} In 1970 electric power generation increased 7.7 percent. Generating capacity reported on Form 67 increased 7.66 percent in 1971 from 263,256 to 283,411 megawatts.

To meet the growing demand for electric power, steam-electric plants reporting on Form 67 consumed 13.4 quadrillion BTU, that is, 13.4×10^{15} BTU in fossil fuels during 1971, up 3.9 percent from 12.9 quadrillion BTU in 1970; consumption increased 7.1 percent from 1969 to 1970. The following tabulation shows the energy consumed and the percentage of energy supplied by each type of fossil fuel during 1969, 1970 and 1971:

	TOTAL BTU (X 10^{15})			% OF TOTAL BTU		
	1969	1970	1971	1969	1970	1971
Coal	7.065	7.098	7.244	58.5	54.9	54.0
Oil	1.577	2.008	2.328	13.1	15.5	17.4
Gas	3.429	3.820	3.841	28.4	29.6	28.6
TOTAL	12,071	12.926	13.413	100.0	100.0	100.0

The table shows that increases in oil consumption between 1969 and 1971 (47.6 percent) have far outpaced the corresponding increases in gas (12.0 percent) and coal (2.5 percent) consumption. The increases in fuel use, however, were not evenly distributed among the major geographic regions of the country. During the period covered by the Form 67 reports, the largest absolute increases in utility coal consumption took place in the Mountain and West North Central Regions, while the use of coal in New England declined. Consumption of oil increased in all geographic regions. It was largest, however, in the regions accessible to water transport, i. e. the coastal areas and in the East North Central Region where oil was delivered via the Mississippi River or the Great Lakes. In the case of gas, nearly three-quarters of the national increment took place in the West South Central Region. The under-the-boiler use of gas actually declined in the Middle Atlantic and Pacific Regions. These various trends are reflected in the following tabulation:

^{4/} Data obtained on FPC Form 4 for electric utility plants in the 50 states but excluding Puerto Rico and the Virgin Islands, showed 1971 electric power generation in fossil-fueled plants, including generation in gas turbine and internal combustion engine units, to be 1,347.6 million megawatt hours (FPC News Release 19370, June 27, 1973). Responses to FPC Form 67 cover an estimated 97 percent of the power generation and a corresponding share of the fossil fuels consumption in steam-electric units located in a geographic area comparable to the FPC Form 4 coverage.

CHANGES IN COAL USE PATTERNS

<u>Region</u>	Increment (+) or Decrement (-) in Consumption <u>From 1969 to 1971, in Million Tons</u>	Percent Change in Use From 1969 <u>to 1971</u>
New England	- 2.4	- 47.1
Middle Atlantic	+ 0.5	+ 1.2
East North Central	+ 4.8	+ 4.2
West North Central	+ 5.6	+ 27.5
South Atlantic	+ 2.5	+ 3.9
East South Central	+ 4.2	+ 9.1
West South Central	- 1.1	- 99.1
Mountain	+ 5.6	+ 54.9
Pacific	<u>0</u>	<u>0</u>
U. S. TOTAL	+ 20.5	+ 6.7

CHANGES IN OIL USE PATTERNS

<u>Region</u>	Increment (+) or Decrement (-) in Consumption <u>From 1969 to 1971, in Million Barrels</u>	Percent Change in Use From 1969 <u>to 1971</u>
New England	+ 14.8	+ 26.2
Middle Atlantic	+ 31.2	+ 31.3
East North Central	+ 14.5	+ 725.0
West North Central	+ 0.6	+ 72.5
South Atlantic	+ 42.0	+ 81.1
East South Central	+ 1.2	+ 240.0
West South Central	+ 3.0	+ 750.0
Mountain	+ 0.8	+ 36.4
Pacific	<u>+ 11.7</u>	<u>+ 52.5</u>
U. S. TOTAL	+ 124.3	+ 49.2

CHANGES IN GAS USE PATTERNS

<u>Region</u>	Increment (+) or Decrement (-) in Consumption From 1969 to 1971, in Million Mcf.	Percent Change in Use From 1969 to 1971
New England	+ 4.2	+ 68.9
Middle Atlantic	- 32.4	- 22.1
East North Central	+ 72.7	+ 42.9
West North Central	+ 12.7	+ 3.9
South Atlantic	+ 46.5	+ 19.2
East South Central	+ 5.5	+ 4.4
West South Central	+ 295.6	+ 19.0
Mountain	+ 35.6	+ 21.6
Pacific	- 31.0	- 5.2
U. S. TOTAL	409.4	+ 12.3

b. Fuel Quality

A gradual decline in the energy content of all fossil fuels used by steam electric plants continued during 1971, as shown in the following tabulation:

	<u>Coal, BTU/Lb.</u>	<u>Oil, BTU/Gal.</u>	<u>Gas, BTU/Cu. Ft.</u>
1969	11,628	148,727	1033
1970	11,276	147,991	1031
1971	11,169	147,017	1030

The decline in coal's energy content resulted in an increase of only 2.5 percent in energy supplied by coal between 1969 and 1971 while tonnage increased by 6.8 percent.

Between 1969 and 1971, the average ash content of coal consumed by the Nation's utilities increased while the sulfur content of coal and oil both decreased, as shown in the following tabulation:

	<u>Coal, % Ash</u>	<u>Coal, % Sulfur</u>	<u>Oil, % Sulfur</u>
1969	12.53	2.59	1.68
1970	13.72	2.58	1.52
1971	13.85	2.47	1.28

Thus, no real progress is being made in lowering the sulfur content of coal, because of the corresponding decline in energy content. As shown in the following tabulation, when looking at the pounds of sulfur per million BTU of fuel burned, the basis of most air pollution control laws, the sulfur content of coal has remained essentially constant between 1969 and 1971, while progress has been made with the sulfur content of residual oil:

Pounds of Sulfur Per Million BTU

	<u>Coal</u>	<u>Oil</u>
1969	2.23	0.90
1970	2.29	0.82
1971	2.21	0.70

c. Air Pollution Control

The total reported air quality control expenses reached \$72.8 million in 1971, an increase of \$1.5 million or 2.1 percent over such expenses in 1970. On a national basis the 1971 expenses amounted to about 0.056 mills per kilowatt-hour, a decrease from the 0.058 mills per kilowatt-hour reported in 1970.

The following tabulation shows the total fly ash, sulfur dioxide and nitrogen oxides emitted during 1969, 1970 and 1971 and the emissions per thousand megawatt hours:

	<u>FLY ASH</u>		<u>SULFUR DIOXIDE</u>		<u>NITROGEN OXIDES</u>	
	Thousand	Tons Per	Thousand	Tons Per	Thousand	Tons Per
	<u>Tons</u>	<u>Megawatt-Hours</u>	<u>Tons</u>	<u>Megawatt-Hours</u>	<u>Tons</u>	<u>Megawatt-Hours</u>
1969	4,293	3.76	16,826	14.73	4,832	4.23
1970	4,250	3.45	17,521	14.24	5,189	4.22
1971	3,830	2.96	17,237	13.32	5,392	4.17

Particulates: Although the total ash content of coal burned by steam-electric plants increased from 38.1 million tons in 1969 to 44.9 million tons in 1971, an increase of 17.8 percent, estimated emissions of particulate matter decreased from 4,293 thousand tons in 1969 to 3,830 thousand tons in 1971, a decrease of 10.8 percent. This decrease in emissions is a result of precipitator modifications, new installations, and changes in modes of operation by the industry. The installed cost of all precipitators increased by \$55.3 million from 1969 to 1970 and by \$66.3 million from 1970 to 1971, increases of 14.1 percent and 14.8 percent, respectively. On the basis of tons per thousand megawatt-hours generated, emissions decreased from 3.76 in 1969 to 2.96 in 1971, a decrease of 21.3 percent.

Sulfur Oxides: The total sulfur content of coal and oil consumed by steam electric plants increased from 8.6 million tons in 1969 to 8.9 million tons in 1970, then decreased slightly to 8.8 million tons in 1971. Correspondingly, emissions of sulfur oxides increased from 16,826 thousand tons in 1969 to 17,521 thousand tons in 1970 and decreased to 17,237 thousand tons in 1971. However, on the basis of tons emitted per thousand megawatt-hours generated, emissions decreased from 14.73 in 1969 to 14.24 in 1970 to 13.32 in 1971, a change of 9.6 percent between 1969 and 1971. This decrease was achieved solely through the use of fuels of lower sulfur content than were consumed previously.

Oxides of Nitrogen: Emissions of nitrogen oxides are estimated as a function of the fuel quantity and type and, in the case of coal, also of the boiler design. (A more detailed description of the computational methodology is given in the 1969 Summary). In the absence of any significant development in nitrogen oxides control technology, emissions in terms of tons per thousand megawatt-hours remained about the same (4.23 in 1969, 4.22 in 1970, and 4.17 in 1971). However, total emissions increased from 4,832 thousand tons in 1969 to 5,189 thousand tons in 1970, and to 5,392 thousand tons in 1972.

d. Water Pollution Control

An important factor in the siting and operation of steam-electric plants is the disposal of large quantities of waste heat. The amount of heat to be disposed of depends upon the type and efficiency of the plant. Although the most efficient plants achieve efficiencies of about 40 percent, the average for all steam-electric plants in 1971 was about 33 percent (heat rate of 10,478 BTU). In the operation of a plant, some heat is lost within the plant and through the stack. On the average, however, more than one-half of the heat input is discharged to the cooling water in the condensing process. The heat added to the water must then be dissipated by some cooling method.

The following tabulation shows the extent to which various types of cooling have been used by the 689 plants for which information on cooling systems was obtained by the 1971 Form 67 reports relating to installed capacities totaling 283,410 megawatts. For comparison, corresponding percentages are shown for the 681 plants with capacities totaling 261,713 megawatts as reported for 1970, and the 651 plants with capacities totaling 242,927 megawatts as reported for 1969.

<u>Type of Cooling</u>	<u>Percent of Total Number of Plants</u>			<u>Percent of Total Installed Capacity</u>		
	<u>1969</u>	<u>1970</u>	<u>1971</u>	<u>1969</u>	<u>1970</u>	<u>1971</u>
Once-through, fresh	49.8	49.4	48.1	50.5	50.1	47.7
Once-through, saline	18.9	18.5	18.1	23.5	22.8	21.5
Cooling ponds	5.4	5.7	6.0	5.9	6.7	7.3
Cooling towers	17.2	17.5	18.1	10.9	11.2	12.9
Combined systems	8.7	8.9	9.7	9.2	9.2	10.6
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0

As indicated, the majority of plants providing the major share of steam-electric capacity employ once-through cooling using either fresh or saline water. During the 3-year period, however, there was an increasing trend away from once-through cooling toward the use of cooling ponds, cooling towers, and combined systems. The latter types of cooling

facilities (ponds, towers, and combined systems) were used by 26.0 percent of the total installed capacity reported for 1969, compared with 30.8 percent in 1971. Essentially all towers are of the evaporative type, and little use has been made so far of nonevaporative (dry) cooling towers. Because of technological limitations, cooling towers using saline waters for cooling have not been employed. Implementation of new State and Federal water pollution control legislation will accelerate the use of cooling ponds and towers.

The total average rate of withdrawal of fresh water for cooling purposes in 1971 was reported to be 172,392 cubic feet per second. This rate is equivalent to about nine percent of the average annual runoff of all streams in the conterminous United States. The total average rate of saline water withdrawals in 1971 was reported to be 72,564 cubic feet per second. The following tabulation shows the total reported withdrawal rates for 1969, 1970, and 1971.

	<u>Rates of Water Withdrawal (cfs)</u>		
	<u>1969</u>	<u>1970</u>	<u>1971</u>
Fresh Water	165,232	172,005	172,392
Saline Water	68,391	73,439	72,564

Plant rates of consumption of cooling water, as shown on line 64 of the Individual Plant Data reports, include reported amounts and also, for plants using once-through cooling, calculated amounts representing the estimated losses due to induced evaporation in receiving water bodies. The calculated amounts were added because the response for water consumption of plants using once-through cooling was incomplete and inaccurate in some instances. The calculated amounts were determined by multiplying the plant withdrawals by .0086 (derived in footnote 14 of table 10). However, the various totals shown in the State and regional summary tables 7-A and 7-B include only the reported amounts for all types of cooling. From these tables, the total national average rate of fresh water consumption for 1971 was 1,267 cubic feet per second. If this total is revised to include the calculated consumption rates for plants using once-through cooling, the total national rate of fresh water consumption is 2,129 cubic feet per second. The following tabulation shows for 1969, 1970, and 1971 the total reported rates of fresh water consumption and the total reported rates modified to include calculated amounts for plants with once-through cooling.

	<u>Rates of Consumption of Fresh Water (cfs)</u>		
	<u>1969</u>	<u>1970</u>	<u>1971</u>
Consumption (using reported amounts)	1,058	881	1,267
Consumption (using calculated losses for once-through cooling systems)	1,933*	1,830*	2,129
Percent of Withdrawal	1.17	1.06	1.23

* These figures should be substituted for those shown in the last paragraph, page xii of the FPC publication for 1970, S-233.

The principal chemical additives reported for cooling water treatment were phosphate, lime, alum, and chlorine, with the latter being used in the largest amounts. The principal use of the additives is to prevent the fouling of condenser tubes. Phosphate, caustic soda, lime, alum, and chlorine were used for boiler water treatment, with caustic soda being used in the largest amounts.

The total reported capital cost of cooling water facilities in 1971 was \$1,206 million, an increase of \$123 million (11.3 percent) over 1970 and \$233 million (24.0 percent) over 1969. The unit costs of the various types of cooling systems in 1969, 1970, and 1971 are shown in the following tabulation.

<u>Type of Cooling</u>	<u>Capital Cost Per Kw</u>		
	<u>1969</u>	<u>1970</u>	<u>1971</u>
Once-through, fresh	\$3.84	\$4.03	\$4.14
Once-through, saline	4.50	4.63	4.73
Cooling ponds	5.57	5.43	6.56
Cooling towers	6.21	6.25	7.97

It should be recognized that the total installed costs of facilities reported in the Form 67's exclude older equipment costs which are unknown and were not reported.

The total operating expenses for cooling water facilities in 1971 were reported to be \$27.9 million for operation and maintenance and \$6.4 million for chemical additives. Assuming fixed charges of 15 percent of the capital costs, the total expenses for the year would amount to \$215.2 million. This is equivalent to approximately 0.16 mills per kilowatt-hour for the total generation of 1.31 trillion kilowatt-hours. The following tabulation compares annual expenses for the three years reported.

	Annual Expenses (million dollars)		
	<u>1969</u>	<u>1970</u>	<u>1971</u>
Operating Expenses	23.6	24.0	27.9
Chemical Additives	5.7	5.9	6.4
Total Expenses*	175.3	192.4	215.2

(Trillion Kwh)

Total Generation	1.14	1.23	1.31
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- * Includes operating expenses, costs of chemical additives, and estimated fixed charges on the investment.

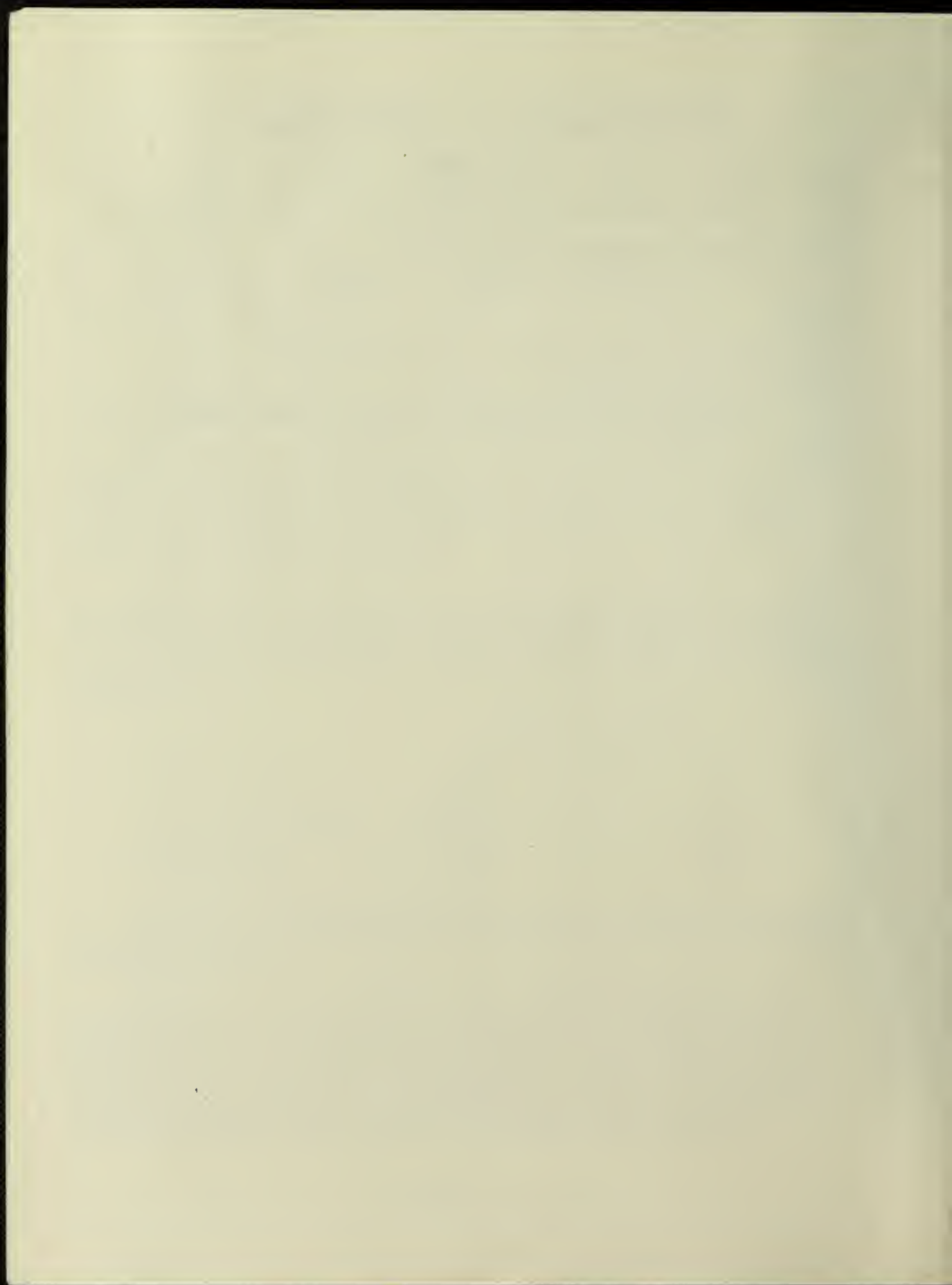


TABLE 1-A
FUEL CONSUMPTION AND QUALITY, BY REGION AND STATE, 1971

LINE NO	GEOGRAPHIC REGION AND STATE	COAL				OIL			GAS		LINE NO
		CONSUMPTION (1000 TONS)	AVERAGE			CONSUMPTION (1000 BBL)	AVERAGE		CONSUMPTION (1000 MCF)	AVERAGE HEATING VALUE (BTU/CF.)	
			HEATING VALUE (BTU/LB.)	SULFUR (%)	ASH (%)		HEATING VALUE (BTU/GAL.)	SULFUR (%)			
1	NEW ENGLAND										1
2	CONNECTICUT	1,408.34	11,569	2.49	17.07	20,994.44	147,841	1.62	43.10	1,000	2
3	MAINE					4,016.00	148,044	2.14			3
4	MASSACHUSETTS	264.53	12,272	1.40	11.59	41,854.16	147,510	1.43	7,515.90	1,000	4
5	NEW HAMPSHIRE	930.00	13,271	2.33	6.75	2,008.35	148,432	1.95			5
6	RHODE ISLAND					2,365.76	148,123	2.10	2,680.02	1,039	6
7	VERMONT	47.30	12,623	3.29	11.63				22.02	1,000	7
	TOTALS	2,650.17	12,289	2.33	12.60	71,238.71	147,684	1.56	10,261.04	1,010	
8	MIDDLE ATLANTIC										
9	NEW JERSEY	3,397.20	12,417	1.86	11.02	37,932.35	144,877	.63	27,601.18	1,032	8
10	NEW YORK	8,167.89	12,219	1.97	13.23	68,938.63	146,510	1.21	79,587.65	1,031	9
11	PENNSYLVANIA	31,951.87	11,903	2.55	16.23	24,032.76	145,438	.79	7,040.93	1,034	10
	TOTALS	43,516.96	12,002	2.39	15.26	130,903.74	145,840	.97	114,229.76	1,032	11
12	EAST NORTH CENTRAL										
13	ILLINOIS	27,655.90	10,347	2.98	12.27	7,052.92	147,882	.87	104,138.17	1,034	12
14	INDIANA	24,292.11	10,889	3.18	11.47	398.43	138,531	.26	27,810.45	1,020	13
15	MICHIGAN	20,447.23	11,751	2.60	12.68	7,780.23	145,975	1.63	77,000.30	857	14
16	OHIO	37,732.14	11,072	3.07	15.73	537.50	142,678	.44	10,826.00	943	15
17	WISCONSIN	9,461.50	11,136	2.67	11.92	699.63	134,811	.33	22,435.01	1,024	16
	TOTALS	119,588.88	10,988	2.96	13.24	16,468.71	146,030	1.18	242,209.93	971	17
18	WEST NORTH CENTRAL										
19	IOWA	3,836.45	10,336	2.82	10.91	59.54	138,671	.68	53,229.66	1,009	18
20	KANSAS	363.38	12,158	3.66	12.84	276.34	148,949	1.38	149,595.70	999	19
21	MINNESOTA	5,349.25	9,580	1.88	9.55	521.13	145,802	1.61	41,719.45	995	20
22	MISSOURI	11,535.67	10,786	3.52	13.57	303.46	146,879	1.55	59,744.73	978	21
23	NEBRASKA	915.65	11,444	2.42	10.35	6.79	143,915	3.59	31,163.47	1,002	22
24	NORTH DAKOTA	3,941.00	6,668	.72	9.22	44.70	139,501	.10			23
25	SOUTH DAKOTA	46.91	11,591	3.25	12.43	167.93	150,622	2.00	1,896.80	1,000	24
	TOTALS	25,988.31	9,891	2.62	11.56	1,379.89	146,734	1.52	337,349.81	997	25
26	SOUTH ATLANTIC										
27	DELAWARE	1,876.40	12,680	3.36	9.83	2,118.44	151,634	2.36	5,889.00	1,075	26
28	DISTRICT OF COLUMBIA	285.75	12,737	1.11	10.90	3,010.93	146,358	.98			27
29	FLORIDA	5,124.32	11,431	3.26	12.39	50,585.05	148,281	1.61	172,359.19	1,008	28
30	GEORGIA	8,733.86	11,622	1.67	12.50	1,946.40	147,775	2.39	59,811.80	1,030	29
31	MARYLAND	5,356.76	12,291	1.99	13.44	13,159.16	146,183	1.28	48.30	1,019	30
32	NORTH CAROLINA	18,099.13	11,898	1.09	13.33	858.03	138,964	.27	16,875.43	1,036	31
33	SOUTH CAROLINA	4,447.44	12,200	1.26	12.11	872.70	146,627	1.71	32,975.58	1,032	32
34	VIRGINIA	5,878.57	12,459	1.02	12.58	20,815.45	148,260	2.40	148.10	1,158	33
35	WEST VIRGINIA	16,355.30	11,517	2.48	16.19	425.57	137,942	.13	339.44	522	34
	TOTALS	66,157.53	11,859	1.82	13.60	93,791.73	147,838	1.73	288,446.84	1,018	35
36	EAST SOUTH CENTRAL										
37	ALABAMA	15,565.10	11,470	2.42	14.96	263.47	136,297	.47	7,838.10	1,046	36
38	KENTUCKY	20,404.70	10,767	3.09	15.58	341.85	131,805	.15	9,306.97	1,023	37
39	MISSISSIPPI	498.20	12,047	2.43	11.55	969.42	144,448	1.63	94,097.98	1,035	38
40	TENNESSEE	14,111.70	11,055	2.61	15.97	111.50	137,088	.32	17,809.90	1,047	39
	TOTALS	50,579.70	11,076	2.74	15.46	1,686.24	140,128	1.06	129,052.95	1,036	40
41	WEST SOUTH CENTRAL										
42	ARKANSAS					2,660.30	151,105	.87	86,520.56	1,018	41
43	LOUISIANA					387.76	148,266	1.15	386,357.39	1,065	42
44	OKLAHOMA	.85	11,554	1.94	10.80	14.46	146,207	1.39	232,355.48	1,050	43
45	TEXAS	9.30	7,000	.60	10.40	290.70	145,527	.78	1,142,201.18	1,028	44
	TOTALS	10.15	7,381	.71	10.43	3,353.22	150,272	.90	1,847,434.61	1,038	45
46	MOUNTAIN										
47	ARIZONA	413.93	10,469	.42	9.98	406.20	148,213	.76	64,098.90	1,074	46
48	COLORADO	3,121.55	10,718	.53	8.59	284.88	149,437	1.20	57,988.64	878	47
49	IDAHO										48
50	MONTANA	672.30	7,622	.66	7.84				991.80	1,143	49
51	NEVADA	1,581.18	12,294	.45	9.24	131.84	149,556	.80	36,718.70	1,076	50
52	NEW MEXICO	6,652.05	8,999	.65	22.59	334.36	149,025	1.04	38,224.91	1,054	51
53	UTAH	396.21	12,271	.55	8.00	1,871.16	152,786	.80	1,918.02	934	52
54	WYOMING	2,941.57	8,127	.59	7.54	14.91	142,292	.25	141.84	833	53
	TOTALS	15,778.79	9,569	.59	14.35	3,043.35	151,258	.85	200,082.81	1,013	54
55	PACIFIC										
56	CALIFORNIA					33,838.81	146,739	.43	558,541.92	1,063	55
57	OREGON	.02	11,500	2.50	11.50	125.54	145,553	1.11	1,136.90	1,052	56
58	WASHINGTON					.03	143,087	.10			57
	TOTALS	.02	11,500	2.50	11.50	33,964.38	146,735	.43	559,678.82	1,063	58
59	NON-CONTIGUOUS U.S.										
60	ALASKA					6,835.40	151,371	1.05			59
61	HAWAII					14,364.99	147,987	2.25			60
62	PURTO RICO										61
63	VIRGIN ISLANDS										62
	TOTALS					21,200.39	149,078	1.86			63
64	U.S. TOTALS	324,270.51	11,169	2.47	13.85	377,030.36	147,017	1.28	3,728,746.57	1,030	64

TABLE 1-B
FUEL CONSUMPTION AND QUALITY, BY AIR QUALITY CONTROL REGION, 1971

A Q C R N O	AIR QUALITY CONTROL REGION	COAL				OIL			GAS		A Q C R N O
		CONSUMPTION (1000 TONS)	AVERAGE			CONSUMPTION (1000 BRLS)	AVERAGE		CONSUMPTION (11000 MCF)	AVERAGE	
			HEATING VALUE (BTU/LB.)	SULFUR (%)	ASH (%)		HEATING VALUE (BTU/GAL.)	SULFUR (%)			
1	ALABAMA AND TOMPIGEE RIVERS										1
2	COLUMBUS-PHOENIX CITY										2
3	EAST ALABAMA	255.80	11,905	1.18	11.50	6.00	137,000	.50	2,337.40	1,030	3
4	METROPOLITAN BIRMINGHAM	6,262.10	11,599	1.35	14.73	44.73	136,227	.71			4
5	MOBILE-PENSACOLA-PANAMA CITY-SO MISS	4,469.70	11,903	2.68	12.10	1,162.72	141,933	1.29	112,024.29	1,030	5
6	SOUTHEAST ALABAMA										6
7	TENN. RIV. VALLEY-CUMBERLAND MTS	6,604.10	11,130	3.42	16.39	51.14	137,213	.16			7
8	CUOK INLET										8
9	NORTHERN ALASKA										9
10	SOUTH CENTRAL ALASKA										10
11	SOUTHEASTERN ALASKA										11
12	ARIZONA-NEW MEX. SOUTHERN BORDER								2,223.51	1,070	12
13	CLARK-MOHAVE	1,581.18	12,294	.45	9.24	27.04	149,404	.82	25,350.90	1,085	13
14	FOUR CORNERS	7,065.98	9,085	.64	21.85				1,028.99	1,076	14
15	PHOENIX-TUCSON					406.20	148,213	.76	62,013.41	1,075	15
16	CENTRAL ARKANSAS					870.20	149,830	.80	36,303.78	1,018	16
17	METROPOLITAN FORT SMITH										17
18	METROPOLITAN MEMPHIS	1,109.30	11,047	3.33	11.98	.93	137,553	.22	17,809.90	1,047	18
19	MONROE-EL DORADO					25.00	146,463	1.00	20,494.03	1,010	19
20	NORTHEAST ARKANSAS					1,674.70	151,702	.88	40,893.38	1,022	20
21	NORTHWEST ARKANSAS					39.80	156,005	2.30	2,318.79	1,022	21
22	SHARPE-ROCK-TEXARKANA-TYLER					101.44	149,775	.82	131,762.93	1,032	22
23	GREAT BASIN VALLEY										23
24	METROPOLITAN LOS ANGELES					28,710.37	146,030	.40	275,877.64	1,058	24
25	NORTH CENTRAL COAST					528.19	150,330	.48	72,354.19	1,085	25
26	NORTH COAST					.91	152,500	1.10	2,723.63	1,032	26
27	NORTHEAST PLATEAU										27
28	SACRAMENTO VALLEY										28
29	SAN DIEGO					3,357.00	150,112	.50	39,375.00	1,058	29
30	SAN FRANCISCO BAY AREA					952.37	153,009	.91	118,604.91	1,055	30
31	SAN JOAQUIN VALLEY								62.94	1,092	31
32	SOUTH CENTRAL COAST	435.90	11,461	3.24	10.41	266.15	148,231	.37	34,736.61	1,090	32
33	SOUTHEAST DESERT					67.52	151,024	1.87	14,807.00	1,079	33
34	COMANCHE										34
35	GRAND MESA	192.26	11,511	.58	9.97				1,862.11	858	35
36	METROPOLITAN DENVER	2,159.29	10,679	.53	7.55	260.82	149,500	1.25	42,381.83	852	36
37	PAWNEE										37
38	SAN ISABEL	196.20	10,190	.88	13.98	22.80	149,785	.63	13,744.70	962	38
39	SAN LUIS										39
40	YAMPA	583.80	10,770	.41	10.24	1.26	130,000	.20			40
41	EASTERN CONNECTICUT	146.60	12,126	2.00	14.45	3,131.62	147,846	1.69			41
42	HARTFORD-NEW HAVEN-SPRINGFIELD	674.27	11,383	2.79	16.93	12,087.38	147,416	1.61	4,140.88	1,000	42
43	NEW JERSEY-NEW YORK-CONNECTICUT	3,347.10	12,000	1.49	13.18	98,492.22	146,064	1.02	97,525.21	1,031	43
44	NORTHWESTERN CONNECTICUT										44
45	METROPOLITAN PHILADELPHIA	3,846.00	12,816	2.65	9.33	32,615.02	145,960	.83	17,954.08	1,048	45
46	SOUTHERN DELAWARE	901.20	12,226	2.32	12.72	97.04	137,636	.30	604.90	1,000	46
47	NATIONAL CAPITAL	3,842.47	12,267	1.66	13.42	8,915.38	146,927	1.82			47
48	CENTRAL FLORIDA					6,721.97	148,516	1.77	38,059.09	1,014	48
49	JACKSONVILLE-BRUNSWICK	323.00	11,243	1.92	15.33	9,752.35	147,438	1.13	12,960.20	1,036	49
50	SOUTHEAST FLORIDA					16,622.70	147,465	1.53	89,124.60	1,001	50
51	SOUTHWEST FLORIDA					4,128.00	149,895	1.29	1,718.00	1,026	51
52	WEST CENTRAL FLORIDA	3,595.92	11,323	3.42	12.38	13,431.97	149,350	2.08	9,353.90	1,026	52
53	AUGUSTA-AIKEN	317.66	12,573	1.77	11.22	1.85	138,180	.06	9,064.66	1,032	53
54	CENTRAL GEORGIA	3,625.00	11,712	1.19	13.05	9.00	136,000	.20	8,465.00	1,033	54
55	CHATTANOOGA	1,680.26	11,603	2.40	10.36	15.00	140,000	.30			55
56	METROPOLITAN ATLANTA	2,111.00	11,624	1.54	12.72				43,000.00	1,029	56
57	NORTHEAST GEORGIA										57
58	SAVANNAH-REAFORT	718.16	12,419	1.20	11.70	1,668.78	148,220	2.48	14,578.16	1,032	58
59	SOUTHWEST GEORGIA	525.00	11,413	1.68	14.40	3.00	136,000	.30			59
60	HAWAII (ENTIRE STATE)					6,835.40	151,371	1.05			60
61	EASTERN IDAHO										61
62	EASTERN WASH.-NORTHERN IDAHO										62
63	IDAHO										63
64	METROPOLITAN BOISE										64
65	BURLINGTON-KEOKUK	3,292.29	10,307	3.18	11.03	22.92	138,170	.37	4,959.67	1,000	65
66	EAST CENTRAL	630.89	11,086	2.82	10.51	67.04	138,009	.15			66
67	METROPOLITAN CHICAGO	14,078.95	10,201	2.54	10.53	6,324.50	147,776	.75	79,831.65	1,031	67
68	METROPOLITAN DURAUQUE	813.30	10,892	3.23	11.71	4.57	140,000	.38	2,574.00	1,000	68
69	METROPOLITAN QUAD CITIES	1,015.10	10,796	2.50	10.30	9.90	138,052	.42	15,538.00	1,037	69
70	METROPOLITAN ST. LOUIS	8,334.10	10,934	3.08	12.88	715.30	151,715	2.31	21,959.30	1,043	70
71	NORTH CENTRAL ILLINOIS	635.10	11,073	2.76	10.75				12,599.80	1,038	71
72	PANORAMA-CRUIER	14,684.61	10,538	3.34	16.11	91.61	136,733	.21			72
73	ROCKFORD-JANESVILLE-BELDIT	708.50	11,337	2.43	10.88	.80	140,000	.33	8,802.20	1,031	73
74	SOUTHEAST ILLINOIS	942.00	11,008	2.34	13.97	8.60	137,885	.31			74
75	WEST CENTRAL ILLINOIS	5,252.80	9,853	4.02	15.14	33.96	137,990	.52	122.40	988	75
76	EAST CENTRAL INDIANA										76
77	EVANSVILLE-OWENSBORO-HENDERSON	6,833.07	10,878	3.54	12.00	76.54	137,969	.19	2,727.77	1,005	77
78	LOUISVILLE	9,930.50	11,274	3.51	11.72	51.03	140,000	.31	8,725.30	1,025	78
79	METROPOLITAN CINCINNATI	6,060.74	10,919	3.07	15.48	108.44	137,272	.30	9,136.70	1,009	79
80	METROPOLITAN INDIANAPOLIS	1,632.30	11,229	3.10	10.48	84.00	137,132	.30	72.60	1,000	80
81	NORTHEAST INDIANA	2,230.50	11,206	1.54	15.40	40.50	140,000	.10			81
82	SOUTH BEND-ELKHART-BENTON HARBOR	917.19	10,897	3.01	11.54	10.80	136,417	.10	3,717.86	1,000	82
83	SOUTHERN INDIANA	4,048.00	10,868	3.56	12.56						83
84	WARSAH VALLEY	4,791.20	10,749	2.86	11.36	145.70	139,936	.30			84

TABLE 1-B

(Contd)-FUEL CONSUMPTION AND QUALITY, BY AIR QUALITY CONTROL REGION, 1971

A Q C R N O	AIR QUALITY CONTROL REGION	COAL				OIL			GAS		A Q C R N O
		CONSUMPTION (1000 TONS)	AVERAGE			CONSUMPTION (1000 BBL)	AVERAGE		CONSUMPTION (1000 MCF)	AVERAGE	
			HEATING VALUE (BTU/LB.)	SULFUR (%)	ASH (%)		HEATING VALUE (BTU/GAL.)	SULFUR (%)			
85	METROPOL. IMAHA-COUNCIL BLUFFS	985.46	11,101	1.92	9.42				24,566.69	1,001	85
86	METROPOLITAN SIOUX CITY	177.27	10,167	.84	11.22	6.76	140,000	.50	6,879.76	987	86
87	METROPOLITAN SIOUX FALLS	46.91	11,591	3.25	12.43	167.93	150,622	2.00	1,896.80	1,000	87
88	NORTHEAST IOWA	921.98	10,176	2.72	10.11	9.58	148,159	1.66	7,505.30	1,023	88
89	NORTH CENTRAL IOWA										89
90	NORTHWEST IOWA										90
91	SOUTHEAST IOWA										91
92	SOUTH CENTRAL IOWA	865.70	9,845	3.99	14.11	38.80	136,000	.50	21,704.90	1,000	92
93	SOUTHWEST IOWA										93
94	METROPOLITAN KANSAS CITY	2,157.34	11,140	2.81	10.03	64.74	148,968	1.90	60,751.72	967	94
95	NORTHEAST KANSAS	1,865.80	11,244	3.05	10.27	220.70	144,133	1.01	35,722.00	1,006	95
96	NORTH CENTRAL KANSAS					15.00	150,000	1.50	1,218.00	972	96
97	NORTHWEST KANSAS					3.50	150,000	.40	6,641.00	957	97
98	SOUTHEAST KANSAS	24.81	12,600	4.15	11.56	7.60	154,304	2.09	12,267.51	1,046	98
99	SOUTH CENTRAL KANSAS					72.34	150,210	1.56	68,507.70	1,001	99
100	SOUTHWEST KANSAS					36.90	150,000	.40	10,467.00	967	100
101	APPALACHIAN	46.36	11,598	1.71	15.77	1.05	132,000	2.00			101
102	ALBUQUERQUE	1,518.49	11,852	1.94	12.81	64.01	135,893	.16			102
103	HUNTINGTON-ASHL.-PORTSM.-IPONTON	8,419.80	11,150	2.22	15.45	271.20	131,047	.10			103
104	NORTH CENTRAL KENTUCKY										104
105	SOUTH CENTRAL KENTUCKY	771.87	11,325	3.11	16.35	2.74	138,600	.12			105
106	SOUTHERN LOUISIANA-SE TEXAS					361.86	148,396	1.17	425,361.26	1,058	106
107	ANDERSON VALLEY					1,595.00	148,219	2.08			107
108	ARRESTON										108
109	DOWN EAST										109
110	METROPOLITAN PORTLAND					2,421.00	147,929	2.18			110
111	NORTHEAST MAINE										111
112	CENTRAL MARYLAND										112
113	CUMBERLAND-KEYSER	3,264.50	11,416	2.05	17.98	133.47	138,026	.10			113
114	EASTERN SHIRE	235.00	12,553	2.30	13.52	164.00	144,352	.62			114
115	METROPOLITAN BALTIMORE	2,034.47	12,991	2.00	10.55	7,802.39	145,770	.92	48.30	1,019	115
116	SOUTHERN MARYLAND	317.04	12,160	2.33	16.33	4,611.16	147,993	2.07			116
117	BERKSHIRE										117
118	CENTRAL MASSACHUSETTS	76.60	12,995	.95	8.75	26.30	138,500	.29			118
119	METROPOLITAN BOSTON					18,380.10	147,362	1.02	1,517.00	1,000	119
120	METROPOLITAN PROVIDENCE	101.10	12,478	.89	8.81	22,446.86	147,680	1.77	4,538.42	1,023	120
121	NORTHEAST VALLEY-SOUTHERN N.H.	930.00	13,271	2.33	6.75	2,008.35	148,432	1.95			121
122	CENTRAL MICHIGAN	5,851.08	11,437	2.46	12.77	169.25	140,000	.33			122
123	METROPOLITAN DETROIT-PORT HURON	11,389.61	11,839	2.74	12.47	5,769.85	147,537	1.99	68,508.00	837	123
124	METROPOLITAN TOLEDO	3,748.23	11,846	2.44	13.70	1,348.97	139,589	.50	1,488.00	526	124
125	SOUTH CENTRAL MICHIGAN	917.91	12,346	2.25	11.42	651.56	149,440	.97	8,492.30	1,021	125
126	UPPER MICHIGAN	476.80	12,540	1.20	11.20	19.60	136,143	.10			126
127	CENTRAL MINNESOTA										127
128	SOUTHEAST MINNESOTA-LA CROSSE	1,388.61	10,139	3.38	18.44	324.39	150,020	2.28	3,787.34	1,000	128
129	DULUTH-SUPERIOR	1,221.60	8,737	1.02	9.84	23.40	137,000	2.06	1,457.80	1,005	129
130	METROPOLITAN FARGO-MOORHEAD										130
131	MINNEAPOLIS-ST. PAUL	3,295.49	10,346	2.38	10.05	202.24	139,234	.30	35,777.05	994	131
132	NORTHWEST MINNESOTA	673.42	7,097	.96	6.25	3.01	140,000	.35			132
133	SOUTHWEST MINNESOTA	87.67	10,691	1.93	11.40	.48	136,300	.30	697.26	999	133
134	MISSISSIPPI DELTA					116.36	153,748	3.70	8,717.79	1,016	134
135	NORTHEAST MISSISSIPPI										135
136	NORTHERN PIEDMONT	868.38	11,841	.80	13.78						136
137	NORTHERN MISSOURI	1,308.10	10,052	4.25	12.69						137
138	SOUTHWEST MISSOURI										138
139	BILLINGS	2,249.00	9,821	5.34	22.74	11.32	138,033	.50	9,877.00	1,013	139
140	GREAT FALLS	347.00	8,632	.69	8.21				952.00	1,147	140
141											141
142	HELENA										142
143	MILES CITY	325.30	6,546	.63	7.45				39.80	1,060	143
144	MISSOULA										144
145	LIACORN-HEATRIFF-FAIRBURY	181.99	12,185	3.81	12.96	5.60	142,218	4.27	7,570.20	1,000	145
146	NEBRASKA					1.19	151,900	.41	2,202.28	1,020	146
147	NEVADA										147
148	NORTHWEST NEVADA					104.80	149,595	.80	13,424.40	1,056	148
149	NEW HAMPSHIRE										149
150	NEW JERSEY	792.60	13,210	2.24	9.37	224.23	138,275	.57			150
151	NE PENN.-UPPER DELAWARE VALLEY	2,925.80	11,902	2.43	14.69	1,329.08	143,388	.86	2,960.00	1,032	151
152	ALBUQUERQUE-MID RIO GRANDE					259.80	148,285	1.09	13,502.30	1,102	152
153	EL PASO-LAS CRUJES-ALAMOGORDO					90.46	153,834	.99	21,589.00	1,056	153
154	NORTHEASTERN PLAINS										154
155	OCOS-PEMERIAN BASIN					13.40	134,179	.40	15,454.00	1,000	155
156	SOUTHWESTERN MTS-AUGUSTINE PLAIN										156
157	UPPER RIO GRANDE VALLEY										157
158	CENTRAL NEW YORK	750.00	13,266	2.72	7.99						158
159	CHAMPLAIN VALLEY	47.30	12,623	3.29	11.63				22.02	1,000	159
160	GENESEE-RINGER LAKES	1,506.77	12,362	2.12	12.66	135.38	137,461	.24	9.36	538	160
161	HUDSON VALLEY	167.00	11,309	1.92	16.67	8,033.00	148,654	2.24	1,085.00	1,016	161
162	NIAGARA FRONTIER	1,624.00	12,588	2.20	10.10						162
163	SOUTHERN TIER EAST	589.02	11,291	1.57	19.21	8.37	138,823	.14			163
164	SOUTHERN TIER WEST	2,367.10	11,893	2.15	15.88	7.26	137,565	.14			164
165	EASTERN MOUNTAIN	5,761.09	11,639	.93	14.47	125.32	139,167	.25			165
166	EASTERN PIEDMONT	3,353.06	12,248	1.40	11.59	28.83	137,500	.08			166
167	METROPOLITAN CHARLOTTE	5,846.28	11,809	1.06	14.21	636.03	138,687	.25	7,507.75	1,030	167
168	NORTHERN COASTAL PLAIN										168

TABLE 1-B
(Contd)- FUEL CONSUMPTION AND QUALITY, BY AIR QUALITY CONTROL REGION, 1971

A O C R N O	AIR QUALITY CONTROL REGION	COAL				OIL			GAS		A O C R N O
		CONSUMPTION (1000 TONS)	AVERAGE			CONSUMPTION (1000 BBL.)	AVERAGE		CONSUMPTION (1000 MCF)	AVERAGE	
			HEATING VALUE (BTU/LB.)	SULFUR (%)	ASH (%)		HEATING VALUE (BTU/GAL.)	SULFUR (%)			
169	SANDHILLS	204.38	12,638	1.10	10.00	8.08	137,500	.08	4,295.09	1,040	169
170	SOUTHERN COASTAL PLAIN	1,211.77	12,570	1.12	9.60	47.70	143,618	.85	5,072.59	1,041	170
171	WESTERN MOUNTAIN	854.17	11,820	1.36	12.03	12.07	137,500	.08			171
172	NORTH DAKOTA	3,941.00	6,668	.72	9.22	44.70	139,501	.10			172
173	DAYTON	1,917.60	12,115	1.29	10.93	.60	140,000	.80	201.30	1,045	173
174	GREATER METROPOLITAN CLEVELAND	6,538.20	11,247	2.80	14.91	45.83	137,278	.10			174
175	MANSFIELD-MARION										175
176	METROPOLITAN COLUMBUS	303.00	11,285	3.69	12.69						176
177	NORTHWEST OHIO	56.80	12,516	.65	6.70	13.00	139,567	.10			177
178	NORTHWEST PENN.-YOUNGSTOWN	5,013.60	11,531	3.26	16.12	61.88	138,683	.19			178
179	PARKERSBURG-MARIETTA	5,552.30	10,340	4.53	19.01	48.33	136,633	.11			179
180	SANOUSKY										180
181	STEUBENVILLE-WEIKON-WHEELING	12,364.50	11,290	3.07	15.17	256.90	136,880	.11			181
182	WILMINGTON-CHILLICOTHE-LOGAN										182
183	YANFESVILLE-CAMBRIDGE	2,214.50	10,630	4.25	16.31	12.50	136,825	.10			183
184	CENTRAL OKLAHOMA	.17	12,971	1.30	10.00	10.51	147,308	1.68	70,191.02	1,035	184
185	NORTH CENTRAL OKLAHOMA	.68	11,200	2.10	11.00				1,356.97	1,055	185
186	NORTHEASTERN OKLAHOMA					1.13	151,203	1.61	85,041.93	1,056	186
187	NORTHWESTERN OKLAHOMA								10,341.73	1,059	187
188	SOUTHEASTERN OKLAHOMA					.10	139,000	.20	34,578.68	1,038	188
189	SOUTHWESTERN OKLAHOMA					2.72	140,142	.25	30,845.15	1,077	189
190	CENTRAL OREGON										190
191	EASTERN OREGON										191
192	NORTHWEST OREGON										192
193	PORTLAND	.02	11,500	2.50	11.50	125.54	145,553	1.11	1,136.90	1,052	193
194	SOUTHWEST OREGON										194
195	CENTRAL PENNSYLVANIA	1,629.80	11,949	2.48	14.26	11.73	138,012	.18			195
196	SOUTH CENTRAL PENNSYLVANIA	3,904.80	12,036	2.58	15.68	521.35	143,177	.84			196
197	SOUTHEAST PENNSYLVANIA	18,406.67	11,784	2.46	17.53	632.45	138,708	.20	22.93	1,050	197
198	CAMDEN-SUNTER										198
199	CHARLESTON	644.02	11,766	1.14	12.99	704.01	148,669	2.09	4,484.86	1,032	199
200	COLUMBIA	1,096.99	12,496	1.52	11.44	35.76	138,034	.06	5,214.59	1,032	200
201	FLORENCE	312.69	12,550	1.02	10.76	36.11	137,500	.08	2,031.04	1,033	201
202	GREENVILLE-SPARTANBURG	942.99	11,786	1.11	13.80				4,600.16	1,032	202
203	GREENWOOD	44.68	13,643	1.00	7.15	81.89	138,543	.25	1,348.91	1,032	203
204	GEORGETOWN	404.15	11,873	1.03	11.89						204
205	BLACK HILLS-PAPIN CITY										205
206	SOUTH DAKOTA										206
207	EASTERN TENN.-SOUTHWESTERN VA.	9,697.30	11,340	1.65	16.76	91.18	137,145	.35			207
208	MIDDLE TENNESSEE	5,223.00	10,872	3.53	15.24	26.49	136,717	.18			208
209	WESTERN TENNESSEE										209
210	WILFNE-WICHITA FALLS					35.80	141,556	.64	82,229.85	1,035	210
211	AMARILLO-LUBBOCK					24.27	138,000	.10	72,631.60	984	211
212	AUSTIN-WACO	9.30	7,000	.60	10.40	2.71	145,704	.92	92,743.60	1,016	212
213	BROWNSVILLE-LAREDO								37,155.00	1,033	213
214	CORPUS CHRISTI-VICTORIA								52,590.00	1,027	214
215	METROPOLITAN DALLAS-FORT WORTH					165.04	146,245	.77	194,204.63	1,035	215
216	METROPOLITAN HOUSTON-GALVESTON					3.32	139,295	.47	321,805.48	1,033	216
217	METROPOLITAN SAN ANTONIO					2.37	143,888	1.70	58,143.90	1,027	217
218	MIDLAND-DRESSA-SAN ANGELO					2.95	142,857	4.14	30,896.90	1,057	218
219	UTAH	328.71	12,233	.55	8.60	3.91	140,000	.20			219
220	WASATCH FRONT	67.50	12,453	.55	5.07	1,867.25	152,813	.80	1,918.02	934	220
221	VERMONT										221
222	CENTRAL VIRGINIA										222
223	HAMPTON ROADS	809.90	12,990	1.67	8.17	4,864.50	148,383	2.14	148.10	1,158	223
224	NORTHEASTERN VIRGINIA	536.40	12,527	1.03	10.91	17.80					224
225	STATE CAPITAL	556.90	12,800	1.09	10.79	10,499.20	148,351	2.50			225
226	VALLEY OF VIRGINIA	910.00	11,931	1.04	15.61	96.54	134,646	.10			226
227	NORTHERN WASHINGTON										227
228	OLYMPIA-NORTHWEST WASHINGTON										228
229	RUGBY SOUND					.03	143,087	.10			229
230	SOUTH CENTRAL WASHINGTON										230
231	ALLEGHENY										231
232	CENTRAL WEST VIRGINIA										232
233	EASTERN PANHANDLE										233
234	KANAWHA VALLEY	2,333.80	11,462	1.00	16.36	55.70	137,140	.20			234
235	NORTH CENTRAL WEST VIRGINIA	4,026.60	12,018	3.01	15.67	30.14	139,000	.25	339.44	522	235
236	SOUTHERN WEST VIRGINIA										236
237	LAKE MICHIGAN	2,274.80	11,002	2.48	11.11	18.12	139,221	.31	1.40	1,029	237
238	NORTH CENTRAL WISCONSIN	209.33	11,556	3.27	10.78	2.85	139,000	.30	2,968.73	1,040	238
239	SOUTHEASTERN WISCONSIN	4,485.83	11,511	2.38	10.65	618.00	134,237	.34	8,637.78	1,028	239
240	SOUTHERN WISCONSIN	149.20	11,668	3.12	8.80	24.70	137,900	.28	8,304.60	1,017	240
241	CASPER	1,715.30	7,348	.62	9.36	8.00	144,272	.30			241
242	METROPOLITAN CHEYENNE										242
243	WYOMING	1,226.27	9,219	.55	5.00	6.91	140,000	.20	141.84	833	243
244	PUERTO RICO					14,364.99	147,987	2.25			244
245	AMERICAN SAMOA										245
246	GUAM										246
247	U. S. VIRGIN ISLANDS										247
	U.S. TOTALS	324,270.51	11,169	2.47	13.85	377,030.36	147,017	1.28	3,728,746.57	1,030	

TABLE 2-A
ESTIMATED ANNUAL EMISSIONS, BY REGION AND STATE, 1971

LINE NO	GEOGRAPHIC REGION AND STATE	PLANT CAPACITY (MW)	ANNUAL GENERATION (1,000 MWH)	ESTIMATED ANNUAL EMISSIONS (1,000 TONS)			LINE NO
				PARTICULATES	SULFUR DIOXIDE	NITROGEN OXIDES	
1	NEW ENGLAND						1
2	CONNECTICUT	4,219.45	22,126.40	5.98	177.07	59.71	2
3	MAINE	361.00	2,203.59	.08	28.79	8.84	3
4	MASSACHUSETTS	5,079.54	27,856.65	9.48	207.42	95.96	4
5	NEW HAMPSHIRE	637.99	3,525.60	1.16	55.63	30.01	5
6	RHODE ISLAND	311.40	1,331.70	.11	16.64	5.74	6
7	VERMONT	30.00	81.80	3.06	3.06	.36	7
	TOTALS	10,639.38	57,125.74	19.87	488.61	200.62	
8	MIDDLE ATLANTIC						8
9	NEW JERSEY	7,166.60	33,214.00	8.50	204.36	143.15	9
10	NEW YORK	15,738.32	67,705.70	91.09	595.37	258.29	10
11	PENNSYLVANIA	17,817.54	85,085.54	226.90	1,652.27	354.28	11
	TOTALS	40,722.46	186,005.24	326.49	2,452.00	755.72	
12	EAST NORTH CENTRAL						12
13	ILLINOIS	16,216.27	71,743.90	279.10	1,626.23	451.35	13
14	INDIANA	10,899.00	51,301.80	222.03	1,515.08	328.59	14
15	MICHIGAN	10,202.40	53,678.16	157.12	1,083.35	240.36	15
16	OHIO	16,968.52	82,677.69	509.78	2,268.57	426.60	16
17	WISCONSIN	5,518.60	24,020.50	124.61	495.91	133.15	17
	TOTALS	59,804.79	283,422.05	1,292.64	6,989.14	1,580.05	
18	WEST NORTH CENTRAL						18
19	ILLINOIS	2,190.31	11,208.10	69.66	212.36	58.80	19
20	KANSAS	3,342.18	14,219.40	13.39	27.24	35.96	20
21	MINNESOTA	3,344.66	14,438.83	49.48	199.65	69.85	21
22	MISSOURI	6,920.74	27,712.50	31.81	796.57	204.29	22
23	NEBRASKA	1,224.05	4,888.01	12.97	43.44	17.41	23
24	NORTH DAKOTA	744.50	4,605.50	39.20	55.71	58.44	24
25	SOUTH DAKOTA	123.00	288.10	.69	4.11	1.12	25
	TOTALS	17,889.44	77,364.44	217.20	1,339.08	445.87	
26	SOUTH ATLANTIC						26
27	DELAWARE	897.30	5,429.30	10.18	140.15	23.26	27
28	DISTRICT OF COLUMBIA	1,076.00	1,982.00	2.25	14.36	8.11	28
29	FLORIDA	12,167.30	57,650.20	29.56	600.72	222.75	29
30	GEORGIA	6,003.50	25,922.20	50.34	288.83	134.67	30
31	MARYLAND	4,542.60	20,891.81	29.77	253.88	83.14	31
32	NORTH CAROLINA	7,634.42	47,555.30	324.66	386.94	168.44	32
33	SOUTH CAROLINA	3,108.68	14,923.00	30.18	113.36	64.30	33
34	VIRGINIA	5,150.33	27,275.00	102.12	285.05	97.66	34
35	WEST VIRGINIA	8,240.38	35,176.50	215.26	795.15	186.85	35
	TOTALS	48,820.51	236,805.31	794.32	2,878.42	989.18	
36	EAST SOUTH CENTRAL						36
37	ALABAMA	7,746.31	36,778.30	517.72	729.07	160.55	37
38	KENTUCKY	9,140.50	45,399.17	155.66	1,235.88	298.27	38
39	MISSISSIPPI	2,962.43	10,368.40	1.47	29.04	24.97	39
40	TENNESSEE	7,443.65	36,060.00	322.79	720.73	149.30	40
	TOTALS	27,272.89	128,585.87	997.64	2,714.72	633.09	
41	WEST SOUTH CENTRAL						41
42	ARKANSAS	2,425.73	9,357.10	.45	1.00	22.73	42
43	LOUISIANA	8,293.70	36,641.06	.05	1.49	76.04	43
44	OKLAHOMA	4,408.68	22,654.09	.06	.04	45.36	44
45	TEXAS	27,256.20	111,855.14	.03	.71	222.52	45
	TOTALS	42,384.31	181,007.39	.59	3.24	366.65	
46	MOUNTAIN						46
47	ARIZONA	1,919.31	7,500.50	7.08	4.44	17.13	47
48	COLORADO	2,010.00	10,638.70	20.31	33.51	38.98	48
49	IDAH0						49
50	MONTANA	291.80	994.50	3.43	8.71	6.25	50
51	NEVADA	2,362.15	5,731.60	7.56	14.20	24.78	51
52	NEW MEXICO	3,215.20	15,644.93	87.01	85.91	67.99	52
53	UTAH	524.28	2,045.70	5.43	9.28	8.06	53
54	WYOMING	1,163.90	4,527.20	42.05	34.07	26.54	54
	TOTALS	11,486.64	47,083.13	172.87	190.12	189.73	
55	PACIFIC						55
56	CALIFORNIA	20,910.14	82,002.28	5.32	49.05	183.84	56
57	OREGON	136.00	32.80	.02	.46	.49	57
58	WASHINGTON	918.64	2,554.10				58
	TOTALS	21,964.78	84,589.18	5.34	49.51	184.33	
59	NON-CONTIGUOUS U.S.						59
60	ALASKA	846.93	4,045.30	1.08	24.06	15.08	60
61	HAWAII	1,578.40	7,677.60	2.41	108.11	31.57	61
62	PUERTO RICO						62
63	VIRGIN ISLANDS						63
	TOTALS	2,425.33	11,722.90	3.49	132.17	46.65	
64	U.S. TOTALS	283,410.53	1,293,711.25	3,830.45	17,237.01	5,391.89	64

TABLE 2-B
ESTIMATED ANNUAL EMISSIONS, BY AIR QUALITY CONTROL REGION, 1971

A O C R N O	AIP QUALITY CONTROL REGION	PLANT CAPACITY (MW)	ANNUAL GENERATION (1,000 MWH)	ESTIMATED ANNUAL EMISSIONS (1,000 TONS)			A O C R N O
				PARTICULATES	SULFUR DIOXIDE	NITROGEN OXIDES	
1	ALABAMA AND TOMIGHEE RIVERS						1
2	COLUMBUS-PHENIX CITY						2
3	EAST ALABAMA	138.00	705.50	5.06	5.93	2.77	3
4	METROPOLITAN BIRMINGHAM	2,325.00	14,770.00	197.04	166.09	74.06	4
5	MOBILE-RENSAC-PANAMA CITY-SO MISS	5,719.73	20,499.20	39.89	230.07	71.92	5
6	SOUTHEAST ALABAMA						6
7	TENN. PIV. VALLEY-CUMBERLAND MTS	3,374.51	15,625.30	288.10	442.47	53.02	7
8	COOK INLET						8
9	NORTHERN ALASKA						9
10	SOUTH CENTRAL ALASKA						10
11	SOUTHEASTERN ALASKA						11
12	ARIZONA-NEW MEX. SOUTHERN RPODEP	41.50	134.93			.43	12
13	CLARK-MOHAVE	2,084.15	4,544.20	7.54	13.92	22.34	13
14	FOUR CORNERS	2,383.40	13,061.40	93.98	98.16	63.79	14
15	PHOENIX-TUCSON	1,730.71	4,441.30	.06	1.03	13.00	15
16	CENTRAL ARKANSAS	1,016.75	3,987.40	.15		8.99	16
17	METROPOLITAN FORT SMITH						17
18	METROPOLITAN MEMPHIS	990.00	4,505.30	3.91	72.40	33.98	18
19	MONROE-EL DORADO	517.52	2,021.20		.08	4.05	19
20	NORTHEAST ARKANSAS	1,161.64	5,130.30	.29	.69	11.67	20
21	NORTHWEST ARKANSAS	59.84	227.60	.01	.31	.54	21
22	SHREVEPORT-TEXARKANA-TYLER	2,980.11	12,757.90	.01		25.89	22
23	GREAT BASIN VALLEY						23
24	METROPOLITAN LOS ANGELES	11,537.56	47,025.88	4.45	38.89	117.41	24
25	NORTH CENTRAL COAST	2,174.70	8,840.60	.39	.85	15.27	25
26	NORTH COAST	162.40	200.00			.53	26
27	NORTHEAST PLATEAU						27
28	SACRAMENTO VALLEY						28
29	SAN DIEGO	1,838.00	8,339.70	.57	5.67	15.08	29
30	SAN FRANCISCO BAY AREA	3,641.20	11,942.10	.16	2.91	25.24	30
31	SAN JOAQUIN VALLEY	165.50	1.20			.01	31
32	SOUTH CENTRAL COAST	1,862.30	4,893.50	.81	27.99	11.28	32
33	SOUTHEAST OREGON	334.48	1,553.20	.01	.42	3.04	33
34	COMANCHE						34
35	GRAND MESEA	109.50	500.70	1.89	2.19	2.01	35
36	METROPOLITAN DENVER	1,448.80	7,430.60	14.75	23.35	26.91	36
37	PAWNEE						37
38	SAN ISABEL	288.50	1,439.70	1.64	3.28	4.80	38
39	SAN LUIS						39
40	YAMPA	163.30	1,267.70	2.03	4.69	5.26	40
41	EASTERN CONNECTICUT	1,210.50	5,477.20	.68	23.50	8.22	41
42	HARTFORD-NEW HAVEN-SPRINGFIELD	2,463.44	13,699.55	6.95	95.55	34.25	42
43	NEW JERSEY-NEW YORK-CONNECTICUT	16,583.76	70,333.70	16.50	434.10	270.50	43
44	NORTHWESTERN CONNECTICUT						44
45	METROPOLITAN PHILADELPHIA	5,119.20	23,823.00	11.90	279.34	108.90	45
46	SOUTHERN DELAWARE	377.50	2,299.20	2.58	41.10	8.45	46
47	NATIONAL CAPITAL	3,380.99	14,251.40	15.40	166.52	50.22	47
48	CENTRAL FLORIDA	1,516.45	7,851.20	.52	39.93	22.25	48
49	JACKSONVILLE-BRUNSWICK	1,592.55	7,241.30	2.93	49.17	26.70	49
50	SOUTHEAST FLORIDA	3,582.40	14,695.10	.52	85.24	54.02	50
51	SOUTHWEST FLORIDA	619.10	2,794.20	.30	17.88	9.44	51
52	WEST CENTRAL FLORIDA	3,911.80	16,562.60	15.69	334.51	95.29	52
53	AUGUSTA-ALBANY	250.00	1,676.20	.73	10.90	6.49	53
54	CENTRAL GEORGIA	1,977.00	3,274.70	22.74	84.76	54.81	54
55	CHATTANOOGA	953.00	3,555.50	9.21	79.04	25.20	55
56	METROPOLITAN ATLANTA	1,536.00	8,643.20	10.67	64.14	39.26	56
57	NORTHEAST GEORGIA						57
58	SAVANNAH-REAFORT	309.10	4,074.10	6.93	19.01	15.00	58
59	SOUTHWEST GEORGIA	218.00	1,110.40	5.34	17.27	4.73	59
60	HAWAII (ENTIRE STATE)	866.93	4,045.30	1.08	24.06	15.08	60
61	EASTERN IDAHO						61
62	EASTERN WASH.-NORTHERN IDAHO						62
63	IDAHO						63
64	METROPOLITAN BOISE						64
65	BURLINGTON-KEOKUK	1,530.52	6,479.70	106.87	205.44	40.37	65
66	FAST CENTRAL	262.30	1,058.30	7.84	34.95	5.60	66
67	METROPOLITAN CHICAGO	10,116.50	43,750.70	29.32	717.47	236.40	67
68	METROPOLITAN OMAHA	370.20	1,886.50	13.44	51.46	18.58	68
69	METROPOLITAN QUAD CITIES	580.85	3,236.80	15.40	49.67	15.71	69
70	METROPOLITAN ST. LOUIS	4,195.10	19,157.40	20.86	507.88	151.59	70
71	NORTH CENTRAL ILLINOIS	430.00	2,578.70	6.78	34.40	9.78	71
72	PAUCAN-CATRO	5,671.45	31,395.80	135.70	962.07	237.71	72
73	ROCKFORD-JANESVILLE-DELOIT	421.00	2,121.30	11.24	33.79	14.75	73
74	SOUTHEAST ILLINOIS	445.14	1,921.10	9.53	35.56	6.95	74
75	WEST CENTRAL ILLINOIS	2,288.32	9,817.70	42.57	413.43	128.43	75
76	EAST CENTRAL INDIANA						76
77	EVANSVILLE-OWENSBORO-HENDERSON	2,584.34	11,357.80	62.23	474.11	71.37	77
78	LOUISVILLE	2,004.50	9,356.20	4.31	270.78	37.19	78
79	METROPOLITAN CINCINNATI	3,017.55	14,090.80	93.36	364.02	69.02	79
80	METROPOLITAN INDIANAPOLIS	924.98	2,828.90	22.67	99.32	18.75	80
81	NORTHEAST INDIANA	1,220.40	5,384.70	31.30	67.34	20.16	81
82	SOUTH BEND-ELKHART-RENTON HARRIS	609.03	2,041.50	30.29	54.11	18.03	82
83	SOUTHERN INDIANA	1,304.00	9,375.40	12.89	282.45	60.72	83
84	WABASH VALLEY	2,282.85	10,053.00	68.17	268.71	61.87	84

TABLE 2-B

(Contd)-ESTIMATED ANNUAL EMISSIONS, BY AIR QUALITY CONTROL REGION, 1971

A Q C R N O	AIR QUALITY CONTROL REGION	PLANT CAPACITY (MW)	ANNUAL GENERATION (1,000 MWH)	ESTIMATED ANNUAL EMISSIONS (1,000 TONS)			A Q C R N O
				PARTICULATES	SULFUR DIOXIDE	NITROGEN OXIDES	
85	METROPOL. OMAHA-COUNCIL BLUFFS	1,053.80	4,437.71	14.99	37.15	13.64	85
86	METROPOLITAN SIOUX CITY	187.05	1,002.70	2.15	2.92	6.20	86
87	METROPOLITAN SIOUX FALLS	123.00	288.10	.69	4.11	1.12	87
88	NORTHEAST IOWA	500.90	2,049.90	18.97	49.27	14.40	88
89	NORTH CENTRAL IOWA						89
90	NORTHWEST IOWA						90
91	SOUTHEAST IOWA						91
92	SOUTH CENTRAL IOWA	586.80	3,088.90	25.35	67.55	14.15	92
93	SOUTHWEST IOWA						93
94	METROPOLITAN KANSAS CITY	2,588.72	8,504.50	9.45	119.02	46.74	94
95	NORTHEAST KANSAS	2,200.45	7,229.50	13.50	112.42	24.25	95
96	NORTH CENTRAL KANSAS	33.75	91.00			.27	96
97	NORTHWEST KANSAS	119.10	585.30			1.30	97
98	SOUTHEAST KANSAS	268.50	1,063.90	.38	2.05	2.64	98
99	SOUTH CENTRAL KANSAS	1,227.00	6,596.10	.01	.37	13.51	99
100	SOUTHWEST KANSAS	229.50	930.00	.01	.05	2.13	100
101	ARRALACHIAN	37.50	77.18	1.14	1.55	.42	101
102	BLUEGRASS	1,053.00	3,386.49	24.58	57.65	13.75	102
103	HUNTINGTON-ASHL.-ROPTSM.-FRONTON	3,288.40	20,379.70	102.87	367.19	95.12	103
104	NORTH CENTRAL KENTUCKY						104
105	SOUTH CENTRAL KENTUCKY	354.00	1,722.10	11.94	47.05	6.95	105
106	SOUTHERN LOUISIANA-SE TEXAS	8,733.45	40,417.16	.05	1.41	83.61	106
107	ANOROSCOGIN VALLEY	147.00	753.25	.02	11.10	3.51	107
108	AROSTOOK						108
109	DOWN EAST						109
110	METROPOLITAN PORTLAND	214.00	1,450.34	.06	17.69	5.33	110
111	NORTHWEST MAINE						111
112	CENTRAL MARYLAND						112
113	CUMBERLAND-KEYSER	1,249.98	7,582.00	59.31	130.87	29.39	113
114	EASTERN SHORE	256.50	431.30	9.60	10.93	2.40	114
115	METROPOLITAN BALTIMORE	1,728.60	9,455.21	9.26	103.74	44.42	115
116	SOUTHERN MARYLAND	1,148.00	3,973.30	.70	46.50	13.02	116
117	REKSHIRE						117
118	CENTRAL MASSACHUSETTS	34.50	151.30	1.13	1.45	.75	118
119	METROPOLITAN BOSTON	2,193.35	10,664.50	1.51	62.97	40.82	119
120	METROPOLITAN PROVIDENCE	2,513.70	14,711.10	2.49	135.27	51.14	120
121	MERRIMACK VALLEY-SOUTHERN N.H.	637.99	3,525.60	1.16	55.63	30.01	121
122	CENTRAL MICHIGAN	2,405.00	13,394.40	57.77	282.09	52.88	122
123	METROPOLITAN DETROIT-PORT HURON	5,439.00	31,219.00	68.11	650.20	145.90	123
124	METROPOLITAN TOLEDO	2,259.00	9,680.86	22.75	181.65	35.38	124
125	SOUTH CENTRAL MICHIGAN	804.50	2,740.50	2.23	42.65	16.00	125
126	UPPER MICHIGAN	253.90	1,455.70	9.11	11.21	6.69	126
127	CENTRAL MINNESOTA	568.80	1,188.53				127
128	SOUTHEAST MINNESOTA-LA CROSSE	712.45	3,394.80	47.84	93.65	13.91	128
129	DULUTH-SUPERIOR	388.60	1,895.10	12.98	24.59	11.33	129
130	METROPOLITAN FARGO-MOOREHEAD						130
131	MINNEAPOLIS-ST. PAUL	2,028.76	9,763.40	17.98	153.99	49.55	131
132	NORTHWEST MINNESOTA	136.90	798.70	14.98	12.67	6.04	132
133	SOUTHWEST MINNESOTA	66.00	194.30	2.95	3.32	.89	133
134	MISSISSIPPI DELTA	220.50	849.40	.02	1.44	1.96	134
135	NORTHEAST MISSISSIPPI						135
136	NORTHERN PIEDMONT	290.00	2,014.20	16.57	13.71	7.87	136
137	NORTHERN MISSOURI	470.00	2,667.20	1.59	108.96	35.97	137
138	SOUTHEAST MISSOURI						138
139	SOUTHWEST MISSOURI	1,032.90	4,889.90	15.98	235.19	33.29	139
140	BILLINGS	241.80	654.10	.48	4.69	3.31	140
141	GREAT FALLS						141
142	HELENA						142
143	MILES CITY	50.00	340.40	2.95	4.02	2.94	143
144	MISSOULA						144
145	LINCOLN-BEATRICE-FAIRBURY	258.65	1,065.60	1.65	13.64	6.23	145
146	NEBRASKA	42.20	162.80			.43	146
147	NEVADA						147
148	NORTHWEST NEVADA	353.00	1,359.80	.02	.28	2.84	148
149	NEW HAMPSHIRE						149
150	NEW JERSEY	969.20	5,938.70	1.46	35.28	19.91	150
151	NE PENN.-UPPER DELAWARE VALLEY	1,320.30	7,231.30	29.86	143.38	30.81	151
152	ALBUQUERQUE-MIO RIO GRANDE	335.00	1,400.20	.04	.95	3.20	152
153	EL PASO-LAS CRUCES-ALAMOGORDO	500.80	2,108.10	.01	.30	4.36	153
154	NORTHEASTERN PLAINS						154
155	PECOS-PERMIAN BASIN	333.90	1,320.10		.01	3.04	155
156	SOUTHWESTERN MTS-AUGUSTINE PLAIN						156
157	UPPER RIO GRANDE VALLEY						157
158	CENTRAL NEW YORK	996.00	4,733.70	4.91	40.07	11.28	158
159	CHAMPLAIN VALLEY	30.00	81.80	3.06	3.06	.36	159
160	GENESEE-FINGER LAKES	1,038.80	5,749.80	11.66	62.71	16.61	160
161	HUDSON VALLEY	931.91	5,489.60	3.27	66.77	19.18	161
162	NIAGARA FRONTIER	828.00	3,827.60	1.92	66.39	18.10	162
163	SOUTHERN TIER EAST	205.75	1,072.40	15.88	18.15	7.12	163
164	SOUTHERN TIER WEST	968.00	5,505.60	45.49	98.86	25.34	164
165	EASTERN MOUNTAIN	2,210.00	15,070.70	97.28	105.42	52.12	165
166	EASTERN PIEDMONT	1,488.82	8,623.30	66.65	92.01	30.25	166
167	METROPOLITAN CHARLOTTE	2,439.00	15,368.00	119.95	121.97	53.69	167
168	NORTHERN COASTAL PLAIN						168

TABLE 2-8

(Contd)-ESTIMATED ANNUAL EMISSIONS, BY AIR QUALITY CONTROL REGION, 1971

A Q C R N O	AIR QUALITY CONTROL REGION	PLANT CAPACITY (MW)	ANNUAL GENERATION (1,000 MWH)	ESTIMATED ANNUAL EMISSIONS (1,000 TONS)			A Q C R N O
				PARTICULATES	SULFUR DIOXIDE	NITROGEN OXIDES	
169	SANDHILLS	165.50	866.80	3.47	4.41	2.69	169
170	SOUTHERN COASTAL PLAIN	627.45	3,505.70	18.07	26.65	14.11	170
171	WESTERN MOUNTAIN	413.65	2,106.60	2.67	22.77	7.71	171
172	NORTH DAKOTA	744.50	4,609.50	39.20	55.71	58.44	172
173	DAYTON	986.10	4,148.50	32.30	48.09	17.04	173
174	GREATER METROPOLITAN CLEVELAND	2,650.37	14,325.20	49.71	358.65	62.71	174
175	MANSFIELD-MARION						175
176	METROPOLITAN COLUMBUS	230.75	511.40	20.51	21.91	3.60	176
177	NORTHWEST OHIO	37.50	83.69			.54	177
178	NORTHWEST PENN.-YOUNGSTOWN	1,975.20	10,258.70	54.94	319.33	56.76	178
179	PARKERSBURG-MARIETTA	1,976.60	11,608.30	149.28	492.88	89.75	179
180	SANOUSKY						180
181	STEUBENVILLE-WEIRTON-WHEELING	7,125.15	28,849.91	71.44	742.82	140.43	181
182	WILMINGTON-CHILLICOTHE-LOGAN						182
183	ZANESVILLE-CAMBRIDGE	933.50	4,012.70	68.77	184.29	39.28	183
184	CENTRAL OKLAHOMA	1,480.53	6,517.60	.01		13.72	184
185	NORTH CENTRAL OKLAHOMA	40.00	87.90	.05	.03	.27	185
186	NORTHEASTERN OKLAHOMA	1,376.65	8,368.40		.01	16.58	186
187	NORTHWESTERN OKLAHOMA	191.00	1,073.90			2.02	187
188	SOUTHEASTERN OKLAHOMA	723.50	3,506.09			6.75	188
189	SOUTHWESTERN OKLAHOMA	597.00	3,100.20			6.02	189
190	CENTRAL OREGON						190
191	EASTERN OREGON						191
192	NORTHWEST OREGON						192
193	PORTLAND	162.64	32.80	.02	.46	.49	193
194	SOUTHWEST OREGON						194
195	CENTRAL PENNSYLVANIA	526.68	2,976.60	28.22	79.05	14.52	195
196	SOUTH CENTRAL PENNSYLVANIA	1,826.43	9,557.40	16.51	198.54	36.29	196
197	SOUTHWEST PENNSYLVANIA	9,853.93	42,515.74	133.77	888.16	187.61	197
198	CAMDEN-SUMTER						198
199	CHARLESTON	543.35	2,577.20	3.93	19.31	8.22	199
200	COLUMBIA	1,046.80	3,533.40	.60	32.64	17.55	200
201	FLORENCE	206.63	1,032.40	5.72	6.26	3.29	201
202	GREENVILLE-SPARTANBURG	375.00	2,651.60	11.17	20.05	9.51	202
203	GREENWOOD	34.10	215.20	.33	.07	1.67	203
204	GEORGETOWN	163.20	890.50	1.56	8.16	6.06	204
205	BLACK HILLS-RAPID CITY						205
206	SOUTH DAKOTA						206
207	EASTERN TENN.-SOUTHWESTERN VA.	4,425.75	23,685.60	242.10	314.16	87.31	207
208	MIDDLE TENNESSEE	2,740.40	12,901.50	115.51	360.86	45.29	208
209	WESTERN TENNESSEE						209
210	ABILENE-WICHITA FALLS	1,818.11	8,359.20		.07	16.11	210
211	AMARILLO-LURBOCK	1,540.87	6,427.16			14.21	211
212	AUSTIN-WACO	2,601.53	9,267.15	.02	.11	18.19	212
213	BROWNSVILLE-LAREDO	814.20	3,549.80			7.18	213
214	CORPUS CHRISTI-VICTORIA	1,309.70	5,101.43			10.49	214
215	METROPOLITAN DALLAS-FORT WORTH	5,895.74	18,830.10	.01	.38	38.23	215
216	METROPOLITAN HOUSTON-GALVESTON	6,848.73	32,410.60			62.38	216
217	METROPOLITAN SAN ANTONIO	1,875.24	5,266.20		.01	11.34	217
218	MIDLAND-ODessa-SAN ANGELO	536.40	3,073.10		.04	5.31	218
219	UTAH	188.64	728.70	5.17	3.54	2.97	219
220	WASATCH FRONT	335.64	1,317.00	.26	5.74	5.09	220
221	VERMONT						221
222	CENTRAL VIRGINIA						222
223	HAMPTON ROADS	1,124.63	5,245.20	7.17	64.38	18.56	223
224	NORTHEASTERN VIRGINIA	284.27	1,305.50	14.93	10.83	4.83	224
225	STATE CAPITAL	1,586.94	7,644.10	13.30	99.89	27.33	225
226	VALLEY OF VIRGINIA	437.00	2,181.80	25.15	18.48	8.40	226
227	NORTHERN WASHINGTON						227
228	OLYMPIA-NORTHWEST WASHINGTON						228
229	PIGET SOUND	30.00	1.20				229
230	SOUTH CENTRAL WASHINGTON	862.00	2,552.90				230
231	ALLEGHENY						231
232	CENTRAL WEST VIRGINIA						232
233	EASTERN PANHANDLE						233
234	KANAWHA VALLEY	1,529.20	6,621.79	15.06	45.87	21.13	234
235	NORTH CENTRAL WEST VIRGINIA	1,605.00	3,731.20	43.57	237.68	37.30	235
236	SOUTHERN WEST VIRGINIA						236
237	LAKE MICHIGAN	1,393.30	6,366.80	10.73	107.85	47.33	237
238	NORTH CENTRAL WISCONSIN	135.00	724.00	14.67	13.42	3.73	238
239	SOUTHEASTERN WISCONSIN	2,709.00	10,687.40	39.61	209.52	39.67	239
240	SOUTHERN WISCONSIN	195.50	927.80	1.59	9.19	2.92	240
241	CASPER	456.70	2,374.00	29.99	20.85	15.46	241
242	METROPOLITAN CHEYENNE						242
243	WYOMING	707.20	2,153.20	12.06	13.22	11.08	243
244	PUERTO RICO	1,578.40	7,677.60	2.41	108.11	31.57	244
245	AMERICAN SAMOA						245
246	GUAM						246
247	U. S. VIRGIN ISLANDS						247
	U.S. TOTALS	283,410.53	1,293,711.25	3,830.45	17,237.01	5,391.89	

TABLE 3-A
ASH AND SULFUR COLLECTION AND DISPOSAL, BY REGION AND STATE, 1971

LINE NO	GEOGRAPHIC REGION AND STATE	TOTAL ASH		TOTAL ELEMENTAL SULFUR		TOTAL SULFUR EQUIVALENT OF ACIO		LINE NO
		COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	
1	NEW ENGLAND							1
2	CONNECTICUT	298.59	11.70					2
3	MAINE	.30	.02					3
4	MASSACHUSETTS	39.49	2.84					4
5	NEW HAMPSHIRE	61.60	56.60					5
6	RHOODE ISLAND	.04	.04					6
7	VERMONT	5.90						7
	TOTALS	405.92	71.20					
8	MIDDLE ATLANTIC							8
9	NEW JERSEY	431.66	62.77					9
10	NEW YORK	1,027.33	31.55					10
11	PENNSYLVANIA	5,088.20	490.10					11
	TOTALS	6,547.19	584.42					
12	EAST NORTH CENTRAL							12
13	ILLINOIS	3,177.16	10.08					13
14	INDIANA	2,529.85	160.70					14
15	MICHIGAN	2,305.40	234.00					15
16	OHIO	5,664.40	445.20					16
17	WISCONSIN	1,021.20	32.90					17
	TOTALS	14,698.01	882.88					
18	WEST NORTH CENTRAL							18
19	IOWA	330.20	15.10					19
20	KANSAS	51.19						20
21	MINNESOTA	473.30	4.60					21
22	MISSOURI	1,542.35	162.30					22
23	NEBRASKA	82.14	24.10					23
24	NORTH DAKOTA	273.80	3.80					24
25	SOUTH DAKOTA	5.30						25
	TOTALS	2,758.28	209.90					
26	SOUTH ATLANTIC							26
27	DELAWARE	167.50	10.20					27
28	DISTRICT OF COLUMBIA	31.62						28
29	FLORIDA	802.59	403.44					29
30	GEORGIA	1,086.49	37.90					30
31	MARYLAND	721.28	35.50					31
32	NORTH CAROLINA	2,052.40	37.00					32
33	SOUTH CAROLINA	528.51	1.82					33
34	VIRGINIA	739.73	21.00					34
35	WEST VIRGINIA	2,469.00	119.80					35
	TOTALS	8,599.12	666.66					
36	EAST SOUTH CENTRAL							36
37	ALABAMA	1,764.20	45.50					37
38	KENTUCKY	3,076.30	33.00					38
39	MISSISSIPPI	57.90						39
40	TENNESSEE	1,924.60	74.80					40
	TOTALS	6,823.00	153.30					
41	WEST SOUTH CENTRAL							41
42	ARKANSAS							42
43	LOUISIANA							43
44	OKLAHOMA							44
45	TEXAS							45
	TOTALS							
46	MOUNTAIN							46
47	ARIZONA	34.40						47
48	COLORADO	256.58	4.72					48
49	IDAH0							49
50	MONTANA	49.00	6.50					50
51	NEVADA	146.71	2.54					51
52	NEW MEXICO	1,410.00						52
53	UTAH	26.16	1.43					53
54	WYOMING	175.82	5.70					54
	TOTALS	2,098.67	20.89					
55	PACIFIC							55
56	CALIFORNIA	2.01						56
57	OREGON							57
58	WASHINGTON							58
	TOTALS	2.01						
59	NON-CONTIGUOUS U.S.							59
60	ALASKA							60
61	HAWAII	.40						61
62	PUERTO RICO							62
63	VIRGIN ISLANDS							63
	TOTALS	.40						
64	U. S. TOTALS	41,932.60	2,589.25					64

TABLE 3-B

ASH AND SULFUR COLLECTION AND DISPOSAL, BY AIR QUALITY CONTROL REGION, 1971

A Q C R N D	AIR QUALITY CONTROL REGION	TOTAL ASH		TOTAL ELEMENTAL SULFUR		TOTAL SULFUR EQUIVALENT OF ACID		A Q C R N D
		COLLECTED (1,000 TONS)	SOLO (1,000 TONS)	COLLECTED (1,000 TONS)	SOLO (1,000 TONS)	COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	
1	ALABAMA AND TOMAIGREE RIVERS							1
2	COLUMBUS-PHENIX CITY							2
3	EAST ALABAMA	28.20						3
4	METROPOLITAN BIRMINGHAM	749.10	21.30					4
5	MOBILE-PENSACOLA-PAN. CITY-SD MISS	498.65	.50					5
6	SOUTHEAST ALABAMA							6
7	TENN. RIV. VALLEY-CUMBERLAND MTS	737.10	23.70					7
8	COOK INLET							8
9	NORTHERN ALASKA							9
10	SOUTH CENTRAL ALASKA							10
11	SOUTHEASTERN ALASKA							11
12	ARIZONA-NEW MEX. SOUTHERN BORDER							12
13	CLARK-MOHAVE	146.71	2.54					13
14	FOUR CORNERS	1,444.40						14
15	PHOENIX-TUCSON							15
16	CENTRAL ARKANSAS							16
17	METROPOLITAN FORT SMITH							17
18	METROPOLITAN MEMPHIS	122.70	40.00					18
19	MONROE-Ft. DODGE							19
20	NORTHEAST ARKANSAS							20
21	NORTHWEST ARKANSAS							21
22	SHREVEPORT-TEXARKANA-TYLER							22
23	GREAT BASIN VALLEY							23
24	METROPOLITAN LOS ANGELES	2.01						24
25	NORTH CENTRAL COAST							25
26	NORTH COAST							26
27	NORTHEAST PLATEAU							27
28	SACRAMENTO VALLEY							28
29	SAN DIEGO							29
30	SAN FRANCISCO BAY AREA							30
31	SAN JOAQUIN VALLEY							31
32	SOUTH CENTRAL COAST	44.25						32
33	SOUTHEAST DESERT							33
34	COACHE							34
35	GRAND MESA	16.50						35
36	METROPOLITAN DENVER	154.69	4.72					36
37	PAWNEE							37
38	SAN ISABEL	27.60						38
39	SAN LUIS							39
40	YAMPA	57.80						40
41	EASTERN CONNECTICUT	41.90						41
42	HARTFORD-NEW HAVEN-SPRINGFIELD	146.20	7.84					42
43	NEW JERSEY-NEW YORK-CONNECTICUT	330.33	18.35					43
44	NORTHWESTERN CONNECTICUT							44
45	METROPOLITAN PHILADELPHIA	421.60	56.90					45
46	SOUTHERN DELAWARE	95.40						46
47	NATIONAL CAPITAL	506.54						47
48	CENTRAL FLORIDA	.20	.10					48
49	JACKSONVILLE-BRUNSWICK	48.74	.14					49
50	SOUTHEAST FLORIDA	.70	.70					50
51	SOUTHWEST FLORIDA	.20						51
52	WEST CENTRAL FLORIDA	620.10	402.50					52
53	AUGUSTA-AIKEN	35.53	1.32					53
54	CENTRAL GEORGIA	452.60	.90					54
55	CHATTANOOGA	160.60						55
56	METROPOLITAN ATLANTA	305.00	37.00					56
57	NORTHEAST GEORGIA							57
58	SAVANNAH-RAUDET	75.44	.10					58
59	SOUTHWEST GEORGIA	71.90						59
60	HAWAII (ENTIRE STATE)	.40						60
61	EASTERN IDAHO							61
62	EASTERN WASH.-NORTHERN IDAHO							62
63	IDAHO							63
64	METROPOLITAN DENVER	226.59	10.09					64
65	BURLINGTON-KECKUK	59.20						65
66	EAST CENTRAL							66
67	METROPOLITAN CHICAGO	1,540.49	92.50					67
68	METROPOLITAN DURHAM	70.60						68
69	METROPOLITAN QUAD CITIES	72.10						69
70	METROPOLITAN ST. LOUIS	1,051.10	70.30					70
71	NORTH CENTRAL ILLINOIS	65.80						71
72	PADUCAH-CAIRO	2,254.09						72
73	ROCKFORD-JANESVILLE-BELOIT	94.70	2.10					73
74	SOUTHEAST ILLINOIS	100.40						74
75	WEST CENTRAL ILLINOIS	730.80						75
76	EAST CENTRAL INDIANA							76
77	EVANSVILLE-OWENSBORO-HENDERSON	735.11						77
78	Louisville	454.90	33.00					78
79	METROPOLITAN CINCINNATI	828.00	11.90					79
80	METROPOLITAN INDIANAPOLIS	134.93	19.90					80
81	NORTHEAST INDIANA	307.80						81
82	SOUTH BEND-ELKHART-BENTON HARBOR	62.10	10.30					82
83	SOUTHWEST INDIANA	501.00	19.00					83
84	WABASH VALLEY	497.75	8.10					84

TABLE 3-B

(Contd)-ASH AND SULFUR COLLECTION AND DISPOSAL, BY AIR QUALITY CONTROL REGION, 1971

A O C R N O	AIR QUALITY CONTROL REGION	TOTAL ASH		TOTAL ELEMENTAL SULFUR		TOTAL SULFUR EQUIVALENT OF ACIO		A O C R N O
		COLLECTED (1,000 TONS)	SOLO (1,000 TONS)	COLLECTED (1,000 TONS)	SOLO (1,000 TONS)	COLLECTED (1,000 TONS)	SOLO (1,000 TONS)	
85	METROPOL. IMAHA-COUNCIL BLUFFS	80.10	14.10					85
86	METROPOLITAN SIOUX CITY	15.10						86
87	METROPOLITAN SIOUX FALLS	5.30						87
88	NORTHEAST IOWA	72.10						88
89	NORTH CENTRAL IOWA							89
90	NORTHWEST IOWA							90
91	SOUTHEAST IOWA							91
92	SOUTH CENTRAL IOWA	99.70	15.10					92
93	SOUTHWEST IOWA							93
94	METROPOLITAN KANSAS CITY	203.41						94
95	NORTHEAST KANSAS	194.50						95
96	NORTH CENTRAL KANSAS							96
97	NORTHWEST KANSAS							97
98	SOUTHEAST KANSAS	2.73						98
99	SOUTH CENTRAL KANSAS							99
100	SOUTHWEST KANSAS							100
101	APPALACHIAN	6.17						101
102	ALLEGHASS	157.90						102
103	HUNTINGTON-ASHL.-ROCKSW.-IRONTON	1,272.80	278.10					103
104	NORTH CENTRAL KENTUCKY							104
105	SOUTH CENTRAL KENTUCKY	126.88						105
106	SOUTHERN LOUISIANA-SE TEXAS							106
107	ANDERSON-GAIN VALLEY	.10						107
108	ARJOSTON							108
109	DOWN EAST							109
110	METROPOLITAN PORTLAND	.20	.02					110
111	NORTHWEST MAINE							111
112	CENTRAL MARYLAND							112
113	CUMBERLAND-KEYSER	500.50	2.40					113
114	EASTERN SHORE	27.00						114
115	METROPOLITAN BALTIMORE	230.77	33.10					115
116	SOUTHERN MARYLAND	51.70						116
117	BERKSHIRE							117
118	CENTRAL MASSACHUSETTS	4.50						118
119	METROPOLITAN BOSTON	1.60	.17					119
120	METROPOLITAN PROVIDENCE	16.91	1.37					120
121	MERRIMACK VALLEY-SOUTHERN N.H.	61.60	56.60					121
122	CENTRAL MICHIGAN	690.90	110.00					122
123	METROPOLITAN DETROIT-PORT HURON	1,270.40	112.90					123
124	METROPOLITAN TOLEDO	496.40	.70					124
125	SOUTH CENTRAL MICHIGAN	107.30	10.50					125
126	UPPER MICHIGAN	41.30						126
127	CENTRAL MINNESOTA							127
128	SOUTHEAST MINNESOTA-LA CROSSE	208.60	9.10					128
129	DULUTH-SUPERIOR	107.80						129
130	METROPOLITAN FARGO-MOORHEAD							130
131	MINNEAPOLIS-ST. PAUL	323.00						131
132	NORTHWEST MINNESOTA	29.00	4.60					132
133	SOUTHWEST MINNESOTA	8.20						133
134	MISSISSIPPI DELTA							134
135	NORTHEAST MISSISSIPPI							135
136	NORTHERN PIEDMONT	80.40						136
137	NORTHERN MISSOURI	163.00						137
138	SOUTHEAST MISSOURI							138
139	SOUTHWEST MISSOURI	510.10	92.30					139
140	BILLINGS	27.80	3.60					140
141	GREAT FALLS							141
142	HELIXA							142
143	MILES CITY	21.20	2.90					143
144	MISSOULA							144
145	LINCOLN-BEATRICE-FAIRBURY	20.54	10.00					145
146	NEBRASKA							146
147	NEVADA							147
148	NORTHWEST NEVADA							148
149	NEW HAMPSHIRE							149
150	NEW JERSEY	73.36	28.07					150
151	NE PENN.-UPPER DELAWARE VALLEY	437.40	113.40					151
152	ALBUQUERQUE-MTO RIO GRANDE							152
153	EL PASO-LAS CRUCES-ALAMOGORDO							153
154	NORTHEASTERN PLAINS							154
155	PECOS-PERMIAN BASIN							155
156	SOUTHWESTERN MTS-AUGUSTINE PLAIN							156
157	UPPER RIO GRANDE VALLEY							157
158	CENTRAL NEW YORK	68.70						158
159	CHAMPLAIN VALLEY	5.90						159
160	GENESSE-FINGER LAKES	181.00	14.10					160
161	HUDSON VALLEY	29.90						161
162	NIAGARA FRONTIER	222.20	.70					162
163	SOUTHERN TIER EAST	119.70	15.80					163
164	SOUTHERN TIER WEST	382.91						164
165	EASTERN MOUNTAIN	723.50	11.20					165
166	EASTERN PIEDMONT	331.90						166
167	METROPOLITAN CHARLOTTE	700.10	25.80					167
168	NORTHERN COASTAL PLAIN							168

TABLE 3-B

(Contd)-ASH AND SULFUR COLLECTION AND DISPOSAL, BY AIR QUALITY CONTROL REGION, 1971

A Q C R N O	AIR QUALITY CONTROL REGION	TOTAL ASH		TOTAL ELEMENTAL SULFUR		TOTAL SULFUR EQUIVALENT OF ACIO		A Q C R N O
		COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	COLLECTED (1,000 TONS)	SOLD (1,000 TONS)	
169	SANDHILLS	17.20						169
170	SOUTHERN COASTAL PLAIN	98.00						170
171	WESTERN MOUNTAIN	101.30						171
172	NORTH DAKOTA	273.80	3.80					172
173	DAYTON	186.00						173
174	GREATER METROPOLITAN CLEVELAND	1,031.80	5.90					174
175	MANFIELD-MARION							175
176	METROPOLITAN COLUMBUS	18.80						176
177	NORTHWEST OHIO	2.00						177
178	NORTHWEST PENN.-YOUNGSTOWN	758.60	45.40					178
179	PARKERSBURG-MARIETTA	946.60	19.00					179
180	SANDUSKY							180
181	STEUBENVILLE-WEIRTON-WHEELING	1,807.80	111.30					181
182	WILMINGTON-CHILLICOTHE-LUGAN							182
183	ZANESVILLE-CAMBRIDGE	384.70	74.00					183
184	CENTRAL OKLAHOMA							184
185	NORTH CENTRAL OKLAHOMA							185
186	NORTHEASTERN OKLAHOMA							186
187	NORTHWESTERN OKLAHOMA							187
188	SOUTHEASTERN OKLAHOMA							188
189	SOUTHWESTERN OKLAHOMA							189
190	CENTRAL OREGON							190
191	EASTERN OREGON							191
192	NORTHWEST OREGON							192
193	PORTLAND							193
194	SOUTHWEST OREGON							194
195	CENTRAL PENNSYLVANIA	215.50						195
196	SOUTH CENTRAL PENNSYLVANIA	599.00						196
197	SOUTHWEST PENNSYLVANIA	3,152.90	352.50					197
198	CAMDEN-SIMTFF							198
199	CHARLESTON	82.12						199
200	COLUMBIA	127.26	.40					200
201	FLORENCE	28.10						201
202	GREENVILLE-SPARTANBURG	131.10						202
203	GREENWOOD	4.50						203
204	GEORGETOWN	48.00						204
205	BLACK HILLS-RAPIO CITY							205
206	SOUTH DAKOTA							206
207	EASTERN TENN.-SOUTHWESTERN VA.	1,451.80	45.90					207
208	MIDDLE TENNESSEE	668.60	.40					208
209	WESTERN TENNESSEE							209
210	BRILFNE-WICHITA FALLS							210
211	AMARILLO-LURROCK							211
212	AUSTIN-WACO							212
213	ARROWSVILLE-LAREDO							213
214	CORPUS CHRISTI-VICTORIA							214
215	METROPOLITAN DALLAS-FORT WORTH							215
216	METROPOLITAN HOUSTON-GALVESTON							216
217	METROPOLITAN SAN ANTONIO							217
218	MIDLAND-ODessa-SAN ANGELO							218
219	UTAH	23.29	1.43					219
220	WASATCH FRONT	2.87						220
221	VERMONT							221
222	CENTRAL VIRGINIA							222
223	HAMPTON BEANS	69.10						223
224	NORTHEASTERN VIRGINIA	49.00						224
225	STATE CAPITAL	67.40						225
226	VALLEY OF VIRGINIA	131.10	9.60					226
227	NORTHERN WASHINGTON							227
228	OLYMPIA-NORTHWEST WASHINGTON							228
229	PUGET SOUND							229
230	SOUTH CENTRAL WASHINGTON							230
231	ALLEGHENY							231
232	CENTRAL WEST VIRGINIA							232
233	EASTERN PANHANDLE							233
234	KANAWHA VALLEY	370.10	30.10					234
235	NORTH CENTRAL WEST VIRGINIA	622.10	1.50					235
236	SOUTHERN WEST VIRGINIA							236
237	LAKE MICHIGAN	230.30	5.90					237
238	NORTH CENTRAL WISCONSIN	3.40						238
239	SOUTHEASTERN WISCONSIN	476.80	16.80					239
240	SOUTHERN WISCONSIN	9.10						240
241	CASPER	123.70	5.70					241
242	METROPOLITAN CHEYENNE							242
243	WYOMING	52.12						243
244	PUERTO RICO							244
245	AMERICAN SAMOA							245
246	GUAM							246
247	U. S. VIRGIN ISLANDS							247
	U.S. TOTALS	41,932.60	2,589.25					

TABLE 4 - A
AIR QUALITY CONTROL EXPENSES, BY REGION AND STATE, 1971

LINE N O	GEOGRAPHIC REGION AND STATE	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000)	ASH COLLECTION AND DISPOSAL		SULFUR PRODUCTS COLLECTION AND DISPOSAL		LINE N O
			EXPENSES (\$1,000)	REVENUES (\$1,000)	EXPENSES (\$1,000)	REVENUES (\$1,000)	
1	NEW ENGLAND						1
2	CONNECTICUT	923.10	368.64	19.40			2
3	MAINE						3
4	MASSACHUSETTS	1,427.88	401.69	130.37			4
5	NEW HAMPSHIRE	129.10	114.10	74.00			5
6	RHODE ISLAND	69.70	15.00	8.00			6
7	VERMONT	44.00	44.00				7
	TOTALS	2,593.78	943.43	231.77			
8	MIDDLE ATLANTIC						8
9	NEW JERSEY	665.95	665.95	42.49			9
10	NEW YORK	3,968.60	2,330.50	560.80			10
11	PENNSYLVANIA	7,758.37	6,161.70	171.40			11
	TOTALS	12,392.92	9,158.15	774.69			
12	EAST NORTH CENTRAL						12
13	ILLINOIS	9,442.76	8,181.66	15.64			13
14	INDIANA	4,050.09	3,875.93	32.30			14
15	MICHIGAN	6,451.22	2,683.13	304.30			15
16	OHIO	8,423.70	8,070.20	123.50			16
17	WISCONSIN	2,785.20	2,648.70	17.30	136.50		17
	TOTALS	31,152.97	25,459.62	493.04	136.50		
18	WEST NORTH CENTRAL						18
19	IOWA	720.70	713.20	.20			19
20	KANSAS	361.81	293.81		68.00		20
21	MINNESOTA	457.80	431.10	20.80			21
22	MISSOURI	2,160.33	1,677.11	193.30	36.90		22
23	NEBRASKA	125.54	125.53	2.42			23
24	NORTH DAKOTA	231.30	214.20	18.10			24
25	SOUTH DAKOTA	32.00	32.00				25
	TOTALS	4,089.48	3,486.95	234.82	104.90		
26	SOUTH ATLANTIC						26
27	DELAWARE	147.41	147.41	68.00			27
28	DISTRICT OF COLUMBIA	432.00	432.00				28
29	FLORIDA	1,177.85	1,145.75	508.23			29
30	GEORGIA	1,540.60	1,510.40	9.09			30
31	MARYLAND	2,906.00	2,906.00	25.80			31
32	NORTH CAROLINA	1,248.58	1,244.57	22.40			32
33	SOUTH CAROLINA	213.79	213.79	2.34			33
34	VIRGINIA	1,855.89	1,697.89	13.80			34
35	WEST VIRGINIA	2,868.30	2,566.10	87.82			35
	TOTALS	12,390.42	11,863.91	737.48			
36	EAST SOUTH CENTRAL						36
37	ALABAMA	1,976.00	1,974.00	23.70			37
38	KENTUCKY	3,730.04	3,730.02	37.40			38
39	MISSISSIPPI	63.50	53.50				39
40	TENNESSEE	1,751.00	1,751.00	85.40			40
	TOTALS	7,520.54	7,508.52	146.50			
41	WEST SOUTH CENTRAL						41
42	ARKANSAS						42
43	LOUISIANA						43
44	OKLAHOMA						44
45	TEXAS	6.32					45
	TOTALS	6.32					
46	MOUNTAIN						46
47	ARIZONA	10.20	8.20				47
48	COLORADO	556.72	528.76	13.90			48
49	IDAH0						49
50	MONTANA	34.00	29.00	11.90			50
51	NEVADA	575.49	218.63	3.45			51
52	NEW MEXICO	475.70	475.70				52
53	UTAH	92.06	92.06	7.13			53
54	WYOMING	146.07	117.67	17.80			54
	TOTALS	1,890.24	1,470.02	54.18			
55	PACIFIC						55
56	CALIFORNIA	632.47	10.60				56
57	OREGON	68.20					57
58	WASHINGTON						58
	TOTALS	700.67	10.60				
59	NON-CONTIGUOUS U.S.						59
60	ALASKA						60
61	HAWAII	15.80	15.80				61
62	PUERTO RICO	69.40					62
63	VIRGIN ISLANDS						63
	TOTALS	85.20	15.80				
64	U. S. TOTALS	72,822.54	59,917.00	2,672.48	241.40		64

TABLE 4-B
AIR QUALITY CONTROL EXPENSES, BY AIR QUALITY CONTROL REGION, 1971

A Q C R N O	AIR QUALITY CONTROL REGION	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000)	ASH COLLECTION AND DISPOSAL		SULFUR PRODUCTS COLLECTION AND DISPOSAL		A Q C R N O
			EXPENSES (\$1,000)	REVENUES (\$1,000)	EXPENSES (\$1,000)	REVENUES (\$1,000)	
1	ALABAMA AND TOMIGREE RIVERS						1
2	COLUMBUS-PHENIX CITY						2
3	EAST ALABAMA	71.00	71.00				3
4	METROPOLITAN BIRMINGHAM	474.00	472.00	18.30			4
5	MOBILE-PENSACOLA-PANAMA CITY-SO MISS	615.80	610.20	1.00			5
6	SOUTHEAST ALABAMA						6
7	TENNESSEE RIVER VALLEY-CUMBERLAND MTS	1,122.00	1,122.00	4.70			7
8	COOK INLET						8
9	NORTHERN ALASKA						9
10	SOUTH CENTRAL ALASKA						10
11	SOUTHEASTERN ALASKA						11
12	ARIZONA-NEW MEXICO SOUTHERN BORDER						12
13	CLARK-MCHAVE	575.49	218.63	3.45			13
14	FOUR CORNERS	485.90	483.90				14
15	PHOENIX-TUCSON						15
16	CENTRAL ARKANSAS						16
17	METROPOLITAN FORT SMITH						17
18	METROPOLITAN MEMPHIS	163.00	163.00	16.00			18
19	MEMPHIS-EL DORADO						19
20	NORTHEAST ARKANSAS						20
21	NORTHWEST ARKANSAS						21
22	SHREVEPORT-TEXARKANA-TYLER						22
23	GREAT BASIN VALLEY						23
24	METROPOLITAN LOS ANGELES	631.08	10.60				24
25	NORTH CENTRAL COAST						25
26	NORTH COAST						26
27	NORTHEAST PLATEAU						27
28	SACRAMENTO VALLEY						28
29	SAN DIEGO						29
30	SAN FRANCISCO BAY AREA						30
31	SAN JOAQUIN VALLEY						31
32	SOUTH CENTRAL COAST	14.70	11.00				32
33	SOUTHWEST DESERT	1.39					33
34	COMANCHE						34
35	GRAND MESA	86.60	86.60				35
36	METROPOLITAN DENVER	409.32	405.46	13.90			36
37	PANHANDLE						37
38	SAN ISABEL	21.20	8.20				38
39	SAN LUIS						39
40	YAMPA	39.60	28.50				40
41	EASTERN CONNECTICUT	184.10	38.40				41
42	HARTFORD-NEW HAVEN-SPRINGFIELD	547.88	258.13	12.37			42
43	NEW JERSEY-NEW YORK-CONNECTICUT	1,503.10	544.90	565.90			43
44	NORTHWESTERN CONNECTICUT						44
45	METROPOLITAN PHILADELPHIA	463.41	463.41	88.00			45
46	SOUTHERN DELAWARE	42.00	42.00				46
47	NATIONAL CAPITAL	3,165.00	3,079.00				47
48	CENTRAL FLORIDA	114.70	114.70	13.70			48
49	JACKSONVILLE-BRUNSWICK	94.45	94.45	26.50			49
50	SOUTHEAST FLORIDA	205.00	205.00	74.10			50
51	SOUTHWEST FLORIDA	21.40	21.40	4.50			51
52	WEST CENTRAL FLORIDA	560.30	528.80	389.43			52
53	AUGUSTA-AIKEN	8.28	8.28	1.65			53
54	CENTRAL GEORGIA	748.00	748.00	.09			54
55	CHATTANOOGA	140.40	140.40				55
56	METROPOLITAN ATLANTA	435.30	435.30	9.70			56
57	NORTHEAST GEORGIA						57
58	SAVANNAH-METROPOLITAN	36.00	12.50	.25			58
59	SOUTHWEST GEORGIA	108.00	103.00				59
60	HAWAII (ENTIRE STATE)	15.80	15.80				60
61	EASTERN IDAHO						61
62	EASTERN WASH.-NORTHERN IDAHO						62
63	IDAHO						63
64	METROPOLITAN MOISE						64
65	RUPLINGTON-KFOKUK	489.77	489.77	15.64			65
66	EAST CENTRAL	54.92	54.92				66
67	METROPOLITAN CHICAGO	6,292.45	6,183.19	15.80			67
68	METROPOLITAN OMAHA	92.40	92.40				68
69	METROPOLITAN QUAD CITIES	138.00	138.00				69
70	METROPOLITAN ST. LOUIS	1,540.92	657.30	104.30	36.90		70
71	NORTH CENTRAL ILLINOIS	118.00	118.00				71
72	PADUCAH-CAIRO	2,999.03	2,999.02				72
73	ROCKFORD-JANESVILLE-RELIOT	227.10	227.10	7.20			73
74	SOUTHEAST ILLINOIS	124.70	128.70				74
75	WEST CENTRAL ILLINOIS	2,030.10	1,256.20				75
76	EAST CENTRAL INDIANA						76
77	EVANSVILLE-OKFENSBORO-HENDONSON	492.11	492.11	.20			77
78	LOUISVILLE	651.00	651.00	37.40			78
79	METROPOLITAN CINCINNATI	778.80	485.80				79
80	METROPOLITAN INDIANAPOLIS	293.20	293.20	11.30			80
81	NORTHEAST INDIANA	285.00	285.00				81
82	SOUTH BEND-ELKHART-BENTON HARBOR	210.10	173.20				82
83	SOUTHERN INDIANA	789.00	789.00	5.00			83
84	WARASH VALLEY	664.80	654.80				84

TABLE 4-B

(Contd)- AIR QUALITY CONTROL EXPENSES, BY AIR QUALITY CONTROL REGION, 1971

A Q C R N O	AIR QUALITY CONTROL REGION	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000)	ASH COLLECTION AND DISPOSAL		SULFUR PRODUCTS COLLECTION AND DISPOSAL		A Q C R N O
			EXPENSES (\$1,000)	REVENUES (\$1,000)	EXPENSES (\$1,000)	REVENUES (\$1,000)	
85	METROPOL. OMAHA-COUNCIL BLUFFS	154.15	154.14	1.42			85
86	METROPOLITAN SIOUX CITY	13.50	13.50				86
87	METROPOLITAN SIOUX FALLS	32.00	32.00				87
88	NORTHEAST IOWA	175.20	175.20				88
89	NORTH CENTRAL IOWA						89
90	NORTHWEST IOWA						90
91	SOUTHEAST IOWA						91
92	SOUTH CENTRAL IOWA	302.20	294.70	20			92
93	SOUTHWEST IOWA						93
94	METROPOLITAN KANSAS CITY	903.81	847.81		68.00		94
95	NORTHEAST KANSAS	233.90	148.10				95
96	NORTH CENTRAL KANSAS						96
97	NORTHWEST KANSAS						97
98	SOUTHEAST KANSAS	7.00	7.00				98
99	SOUTH CENTRAL KANSAS						99
100	SOUTHWEST KANSAS						100
101	APPALACHIAN	18.37	18.36				101
102	BLUEGRASS	7.04	7.04				102
103	HUNTINGTON-ASHL.-PORTSM.-HUNTON	1,337.70	1,336.70	97.00			103
104	NORTH CENTRAL KENTUCKY						104
105	SOUTH CENTRAL KENTUCKY	370.70	370.70				105
106	SOUTHERN LOUISIANA-SE TEXAS						106
107	ANDRESCOGGIN VALLEY						107
108	ARCONTHINK						108
109	DOWN EAST						109
110	METROPOLITAN PORTLAND						110
111	NORTHWEST MAINE						111
112	CENTRAL MARYLAND						112
113	CUMBERLAND-KEYSER	973.50	801.30	2.40			113
114	EASTERN SHORE	64.00	64.00				114
115	METROPOLITAN BALTIMORE	505.30	505.30	23.40			115
116	SOUTHERN MARYLAND	379.00	379.00				116
117	BECKSHIRE						117
118	CENTRAL MASSACHUSETTS	40.90	26.90				118
119	METROPOLITAN BOSTON	509.00	15.30	9.60			119
120	METROPOLITAN PROVIDENCE	850.70	332.50	129.90			120
121	WETAHACK VALLEY-SOUTHERN N.H.	129.10	114.10	74.00			121
122	CENTRAL MICHIGAN	799.60	794.70	33.00			122
123	METROPOLITAN DETROIT-PORT HURON	5,074.05	1,548.26	251.00			123
124	METROPOLITAN TOLEDO	678.00	541.00	1.30			124
125	SOUTH CENTRAL MICHIGAN	275.47	174.07	19.00			125
126	UPPER MICHIGAN	99.10	99.10				126
127	CENTRAL MINNESOTA						127
128	SOUTHEAST MINNESOTA-LA CROSSE	439.90	303.40	1.70	136.50		128
129	DULUTH-SUPERIOR	51.10	49.40				129
130	METROPOLITAN FARGO-MOORHEAD						130
131	MINNEAPOLIS-ST. PAUL	348.00	323.00	7.60			131
132	NORTHWEST MINNESOTA	30.70	30.70	13.20			132
133	SOUTHWEST MINNESOTA	13.00	13.00				133
134	MISSISSIPPI DELTA	5.00					134
135	NORTHEAST MISSISSIPPI						135
136	NORTHERN PIEMONT	26.00	26.00				136
137	NORTHERN MISSOURI	130.40	130.40				137
138	SOUTHEAST MISSOURI						138
139	SOUTHWEST MISSOURI	525.01	512.01	89.00			139
140	HILLINGS	9.00	9.00	9.00			140
141	GREAT FALLS						141
142	HELINA						142
143	MILES CITY	25.00	20.00	2.90			143
144	MISSOULA						144
145	LINCOLN-BEATRICE-FAIRBURY	17.29	17.29	1.00			145
146	NEBRASKA						146
147	NEVADA						147
148	NORTHWEST NEVADA						148
149	NEW HAMPSHIRE						149
150	NEW JERSEY	12.45	12.45	11.59			150
151	NE PENN.-UPPER DELAWARE VALLEY	204.00	167.00	34.80			151
152	ALBUQUERQUE-RIO GRANDE						152
153	EL PASO-LAS CRUCES-ALAMOGORDO						153
154	NORTHEASTERN PLAINS						154
155	PECOS-PERMIAN BASIN						155
156	SOUTHWESTERN MTS-AUGUSTINE PLAIN						156
157	UPPER RIO GRANDE VALLEY						157
158	CENTRAL NEW YORK	19.90	19.90				158
159	CHAMPLAIN VALLEY	44.00	44.00				159
160	GENESEE-TINGER LAKES	781.30	502.30	9.40			160
161	HUDSON VALLEY	150.00	130.00				161
162	NIAGARA FRONTIER	306.10	306.10	.80			162
163	SOUTHERN TIER EAST	210.10	188.70	6.70			163
164	SOUTHERN TIER WEST	1,630.20	996.70				164
165	EASTERN MOUNTAIN	168.38	168.37	22.40			165
166	EASTERN PIEMONT	241.00	241.00				166
167	METROPOLITAN CHARLOTTE	452.20	446.20				167
168	NORTHERN COASTAL PLAIN						168

TABLE 4-B
(Contd)-AIR QUALITY CONTROL EXPENSES, BY AIR QUALITY CONTROL REGION, 1971

A O C R N O	AIR QUALITY CONTROL REGION	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000)	ASH COLLECTION AND DISPOSAL		SULFUR PRODUCTS COLLECTION AND DISPOSAL		A O C R N O
			EXPENSES (\$1,000)	REVENUES (\$1,000)	EXPENSES (\$1,000)	REVENUES (\$1,000)	
169	SANDHILLS	42.00	42.00				169
170	SOUTHERN COASTAL PLAIN	119.00	119.00				170
171	WESTERN MOUNTAIN	200.00	200.00				171
172	NORTH DAKOTA	231.30	214.20	18.10			172
173	DAYTON	549.40	539.40				173
174	GREATER METROPOLITAN CLEVELAND	3,167.20	3,165.70	4.60			174
175	MANSFIELD-MARION						175
176	METROPOLITAN COLUMBUS	69.00	69.00				176
177	NORTHWEST OHIO	8.00	3.00				177
178	NORTHWEST PENN.-YOUNGSTOWN	1,372.70	1,294.80	11.60			178
179	PARKERSBURG-MARTIN	629.70	629.70				179
180	SANDUSKY						180
181	STEUBENVILLE-WHEELING	1,927.00	1,880.20	10.30			181
182	WILMINGTON-CHILLICOTHE-LOGAN						182
183	ZANESVILLE-CAMBRIDGE	326.50	323.50				183
184	CENTRAL OKLAHOMA						184
185	NORTH CENTRAL OKLAHOMA						185
186	NORTHEASTERN OKLAHOMA						186
187	NORTHWESTERN OKLAHOMA						187
188	SOUTHEASTERN OKLAHOMA						188
189	SOUTHWESTERN OKLAHOMA						189
190	CENTRAL OREGON						190
191	EASTERN OREGON						191
192	NORTHWEST OREGON						192
193	PORTLAND	68.20					193
194	SOUTHWEST OREGON						194
195	CENTRAL PENNSYLVANIA	373.30	352.30				195
196	SOUTH CENTRAL PENNSYLVANIA	820.00	681.00	.50			196
197	SOUTHWEST PENNSYLVANIA	5,303.27	3,965.30	132.90			197
198	CAMPBELL-SUMTER						198
199	CHARLESTON	6.64	6.64				199
200	COLUMBIA	31.36	31.36	.44			200
201	FLORENCE	42.00	42.00				201
202	GREENVILLE-SPARTANBURG	96.70	96.70				202
203	GREENWOOD	1.81	1.81				203
204	GEORGETOWN	20.90	20.90				204
205	BLACK HILLS-RAPID CITY						205
206	SOUTH DAKOTA						206
207	EASTERN TENN.-SOUTHWESTERN VA.	1,294.60	1,290.60	79.70			207
208	MIDDLE TENNESSEE	559.00	559.00	.70			208
209	WESTERN TENNESSEE						209
210	ABILENE-WICHITA FALLS						210
211	AMARILLO-LARAMIE						211
212	AUSTIN-WACO	6.32					212
213	BROWNSVILLE-LAFAYETTE						213
214	CORPUS CHRISTI-VICTORIA						214
215	METROPOLITAN DALLAS-FORT WORTH						215
216	METROPOLITAN HOUSTON-GALVESTON						216
217	METROPOLITAN SAN ANTONIO						217
218	MIDLAND-ODessa-SAN ANGELO						218
219	UTAH	59.00	59.00	7.13			219
220	WASATCH FRONT	33.06	33.06				220
221	VERMONT						221
222	CENTRAL VIRGINIA						222
223	HAMPTON ROADS	416.40	363.40				223
224	NORTHEASTERN VIRGINIA	95.00	92.00				224
225	STATE CAPITAL	119.29	114.29				225
226	VALLEY OF VIRGINIA	113.60	106.60	2.80			226
227	NORTHERN WASHINGTON						227
228	OLYMPIA-NORTHWEST WASHINGTON						228
229	PUGET SOUND						229
230	SOUTH CENTRAL WASHINGTON						230
231	ALLEGHENY						231
232	CENTRAL WEST VIRGINIA						232
233	EASTERN PENNSYLVANIA						233
234	KANAWHA VALLEY	516.80	387.30	87.00			234
235	NORTH CENTRAL WEST VIRGINIA	383.30	383.30	.82			235
236	SOUTHERN WEST VIRGINIA						236
237	LAKE MICHIGAN	258.80	258.80	4.40			237
238	NORTH CENTRAL WISCONSIN	6.00	6.00				238
239	SOUTHEASTERN WISCONSIN	1,964.00	1,964.00	4.00			239
240	SOUTHERN WISCONSIN	30.00	30.00				240
241	CASPER	95.50	67.10	17.90			241
242	METROPOLITAN CHEYENNE						242
243	WYOMING	50.57	50.57				243
244	PUEBLO RICO	69.40					244
245	AMERICAN SAMOA						245
246	GUAM						246
247	U.S. VIRGIN ISLANDS						247
	U.S. TOTALS	72,822.54	59,917.00	2,672.48	241.40		

TABLE 5-A

INSTALLED COSTS OF AIR POLLUTION CONTROL EQUIPMENT, BY REGION AND STATE, 1971

LINE NO	GEOGRAPHIC REGION AND STATE	INSTALLED COSTS (\$1,000)					LINE NO
		MECHANICAL PRECIPITATORS	ELECTROSTATIC PRECIPITATORS	COMBINED PRECIPITATORS	DESULFURIZATION SYSTEMS	STACKS	
1	NEW ENGLAND						1
2	CONNECTICUT	280.00	6,045.79	2,384.00		2,848.86	2
3	MAINE	260.70		187.00		628.40	3
4	MASSACHUSETTS	335.40	6,768.60	344.00		4,610.26	4
5	NEW HAMPSHIRE		766.00	332.00		509.00	5
6	RHODE ISLAND	281.00	256.80			346.00	6
7	VERMONT	54.00				24.00	7
	TOTALS	1,211.10	13,837.19	3,247.00		8,966.52	
8	MIDDLE ATLANTIC						8
9	NEW JERSEY	485.50	10,881.80	3,994.60		6,454.00	9
10	NEW YORK	4,655.71	8,972.67	30,077.20		18,686.63	10
11	PENNSYLVANIA	1,310.15	30,513.16	20,448.40		21,054.77	11
	TOTALS	6,451.36	50,367.63	54,520.20		46,195.40	
12	EAST NORTH CENTRAL						12
13	ILLINOIS	2,186.40	44,410.28			14,687.42	13
14	INDIANA	1,461.60	26,554.15	4,523.60		11,403.46	14
15	MICHIGAN	3,832.20	33,846.80	15,374.20		12,075.30	15
16	OHIO	2,483.00	27,345.80	12,822.20		29,371.30	16
17	WISCONSIN	667.30	12,721.00		300.00	5,532.40	17
	TOTALS	10,630.50	144,878.03	32,720.00	300.00	73,069.88	
18	WEST NORTH CENTRAL						18
19	IOWA	1,679.70	1,820.00			2,105.30	19
20	KANSAS	535.91	842.00			2,118.59	20
21	MINNESOTA	674.20	4,640.00			4,668.98	21
22	MISSOURI	677.10	13,590.96	961.20	1,304.00	11,225.14	22
23	NEBRASKA	317.50	647.00	776.00		990.92	23
24	NORTH DAKOTA	576.10				632.90	24
25	SOUTH DAKOTA	36.00				284.00	25
	TOTALS	4,496.51	21,539.96	1,737.20	1,304.00	22,025.83	
26	SOUTH ATLANTIC						26
27	DELAWARE	253.00	200.00	996.00		1,232.00	27
28	DISTRICT OF COLUMBIA	322.00	116.00	2,261.00		520.00	28
29	FLORIDA	1,962.40	4,987.00			9,382.10	29
30	GEORGIA	161.40	3,721.00			6,315.20	30
31	MARYLAND	1,601.00	12,442.00	3,035.00		10,847.00	31
32	NORTH CAROLINA	1,339.40	9,609.00	3,041.00		3,533.72	32
33	SOUTH CAROLINA	628.84	6,728.98			2,541.45	33
34	VIRGINIA	1,444.00	7,130.00	3,676.00		2,557.00	34
35	WEST VIRGINIA	1,009.00	22,647.00	673.00		18,441.00	35
	TOTALS	8,721.04	67,580.98	13,682.00		59,369.47	
36	EAST SOUTH CENTRAL						36
37	ALABAMA	3,115.91	7,685.60	2,429.90		5,357.00	37
38	KENTUCKY	1,144.67	16,421.60	8,299.60		9,119.36	38
39	MISSISSIPPI		393.50			542.89	39
40	TENNESSEE	1,242.40	6,100.00	7,933.00		3,799.00	40
	TOTALS	5,502.98	30,600.70	18,662.50		18,818.25	
41	WEST SOUTH CENTRAL						41
42	ARKANSAS					850.40	42
43	LOUISIANA					1,558.10	43
44	OKLAHOMA		1,726.00			1,054.80	44
45	TEXAS		1,726.00			5,379.48	45
	TOTALS					8,842.78	
46	MOUNTAIN						46
47	ARIZONA	72.10				902.03	47
48	COLORADO	534.66	579.00	5,900.06		2,403.66	48
49	IDAHO						49
50	MONTANA	49.00	1,030.00			351.20	50
51	NEVADA	93.00				489.00	51
52	NEW MEXICO	359.40	8,344.00			575.55	52
53	UTAH	173.88		680.75		484.81	53
54	WYOMING	660.33	814.00			1,272.91	54
	TOTALS	1,942.37	10,767.00	6,580.81		6,479.16	
55	PACIFIC						55
56	CALIFORNIA	2,631.00				30,861.18	56
57	OREGON					50.30	57
58	WASHINGTON					250.00	58
	TOTALS	2,631.00				31,161.48	
59	NON-CONTIGUOUS U.S.						59
60	ALASKA						60
61	HAWAII	54.25				862.67	61
62	PUERTO RICO						62
63	VIRGIN ISLANDS						63
	TOTALS	54.25				862.67	
64	U.S. TOTALS	41,641.11	341,297.49	131,149.71	1,604.00	271,791.44	64

TABLE 5-B
INSTALLED COSTS OF AIR POLLUTION CONTROL EQUIPMENT, BY AIR QUALITY REGION, 1971

A O C R N O	AIR QUALITY CONTROL REGION	INSTALLED COSTS (\$1,000)					A O C R N O
		MECHANICAL PRECIPITATORS	ELECTROSTATIC PRECIPITATORS	COMBINED PRECIPITATORS	DESULFURIZATION SYSTEMS	STACKS	
1	ALABAMA AND TOBACCO RIVERS						1
2	ALABAMA-PHENIX CITY						2
3	EAST ALABAMA		567.60			11.00	3
4	METROPOLITAN BIRMINGHAM	1,072.00	1,071.00			1,119.00	4
5	MOBILE-PENSACOLA-CITY-SO MISS	1,357.01	6,222.50			3,815.39	5
6	SOUTHEAST ALABAMA						6
7	TENN. RIV. VALLEY-CUMBERLAND MTS	792.90	2,481.00	2,429.90		1,827.00	7
8	COOK INLET						8
9	NORTHERN ALASKA						9
10	SOUTH CENTRAL ALASKA						10
11	SOUTHEASTERN ALASKA						11
12	ARIZONA-NEW MEX. SOUTHERN BORDER					44.80	12
13	CLARK-MOHAVE	93.00				348.00	13
14	FOUR CORNERS	431.50	8,344.00			513.40	14
15	PHOENIX-TUCSON					728.03	15
16	CENTRAL ARKANSAS					245.00	16
17	METROPOLITAN FORT SMITH						17
18	METROPOLITAN MEMPHIS		2,733.00				18
19	MINNAPOLIS-DECATUR					121.00	19
20	NORTHEAST ARKANSAS					517.20	20
21	NORTHWEST ARKANSAS					29.00	21
22	SHREVEPORT-TEXARKANA-TYLER					924.96	22
23	GREAT BASIN VALLEY						23
24	METROPOLITAN LOS ANGELES	2,631.00				4,678.78	24
25	NORTH CENTRAL COAST					8,060.00	25
26	NORTH COAST					498.00	26
27	NORTHEAST PLATAM						27
28	SACRAMENTO VALLEY						28
29	SAN DIEGO					189.00	29
30	SAN FRANCISCO BAY AREA					12,578.00	30
31	SAN JOAQUIN VALLEY					684.00	31
32	SOUTH CENTRAL COAST		1,154.00			7,814.00	32
33	SOUTHEAST DESERT					65.40	33
34	COMANCHE						34
35	GRAND MEAS	288.30		274.87		431.20	35
36	METROPOLITAN DENVER	161.16		5,357.93		1,405.36	36
37	PAWNEE						37
38	SAN ISABEL	85.20		266.30		352.10	38
39	SAN LUIS						39
40	YAMPA		579.00			215.00	40
41	EASTERN CONNECTICUT		539.00			931.00	41
42	HARTFORD-NEW HAVEN-SPRINGFIELD	424.00	3,497.64	1,182.00		1,514.13	42
43	NEW JERSEY-NEW YORK-CONNECTICUT	3,646.12	9,267.07	32,516.60		19,306.61	43
44	NORTHWESTERN CONNECTICUT						44
45	METROPOLITAN PHILADELPHIA	1,499.50	6,514.70	5,857.00		3,227.60	45
46	SOUTHERN DELAWARE			996.00		686.00	46
47	NATIONAL CAPITAL	322.00	4,171.00	3,970.00		2,156.00	47
48	CENTRAL FLORIDA	366.10				2,430.90	48
49	JACKSONVILLE-ORLANDO					645.20	49
50	SOUTHEAST FLORIDA	1,490.30				2,096.20	50
51	SOUTHWEST FLORIDA					236.30	51
52	WEST CENTRAL FLORIDA		2,724.00			3,041.00	52
53	AUGUSTA-AIKEN	98.05	1,196.75			214.18	53
54	CENTRAL GEORGIA					1,083.00	54
55	CHATTANOOGA		2,567.00			1,280.00	55
56	METROPOLITAN ATLANTA						56
57	NORTHEAST GEORGIA						57
58	SAVANNAH-MACON	453.59	719.41			509.59	58
59	SOUTHWEST GEORGIA						59
60	HAWAII (ENTIRE STATE)	54.25				862.67	60
61	EASTERN IDAHO						61
62	EASTERN WASH.-NORTHERN IDAHO						62
63	IDAHO						63
64	METROPOLITAN POISE						64
65	BUCKINGHAM-KENOKUK	38.00	1,557.89			2,624.12	65
66	EAST CENTRAL	224.60				282.90	66
67	METROPOLITAN CHICAGO	9.00	35,838.95			7,431.00	67
68	METROPOLITAN CLARK	261.50				256.40	68
69	METROPOLITAN QUAD CITIES	168.90	365.00			515.00	69
70	METROPOLITAN ST. LOUIS	447.00	11,644.00		1,304.00	5,074.00	70
71	NORTH CENTRAL ILLINOIS	219.00	428.00			405.00	71
72	PADUCAH-CAIRO	1,526.45	8,731.00	8,050.50		3,689.11	72
73	ROCKFORD-JANSVILLE-PELUIT	232.00	179.00			566.00	73
74	SOUTHEAST ILLINOIS		2,739.00			178.10	74
75	WEST CENTRAL ILLINOIS	164.80	6,065.40			2,176.00	75
76	EAST CENTRAL INDIANA						76
77	EVANSVILLE-OWENSBORO-HENDERSON	515.00	3,346.60	967.10		3,823.10	77
78	LOUISVILLE		10,087.00			2,160.00	78
79	METROPOLITAN CINCINNATI	140.00	3,424.00	1,162.00		3,956.00	79
80	METROPOLITAN INDIANAPOLIS	542.20	1,278.20	415.50		786.46	80
81	NORTHEAST INDIANA		2,766.00			4,021.00	81
82	SOUTH BEND-ELKHART-BENTON HARBOR	153.40	726.00			236.00	82
83	SOUTHERN INDIANA			3,390.00		2,886.00	83
84	WARSAH VALLEY	276.00	5,522.00			1,038.00	84

TABLE 5-B

(Contd)- INSTALLED COSTS OF AIR POLLUTION CONTROL EQUIPMENT, BY AIR QUALITY REGION, 1971

A O C R N O	AIR QUALITY CONTROL REGION	INSTALLED COSTS (\$1,000)					A O C R N O
		MECHANICAL PRECIPITATORS	ELECTROSTATIC PRECIPITATORS	COMBINED PRECIPITATORS	OESULFURIZATION SYSTEMS	STACKS	
85	METROPOL. AREA-CCUNCIL BLUFFS	335.50	647.00	776.00		1,097.80	85
86	METROPOLITAN SIOUX CITY					88.50	86
87	METROPOLITAN SIOUX FALLS	36.00				284.00	87
88	NORTHEAST IOWA	456.80	1,088.00			439.10	88
89	NORTH CENTRAL IOWA						89
90	NORTHWEST IOWA						90
91	SOUTHEAST IOWA						91
92	SOUTH CENTRAL IOWA	671.00				533.00	92
93	SOUTHWEST IOWA						93
94	METROPOLITAN KANSAS CITY	897.10	2,136.00	961.20		3,707.11	94
95	NORTHEAST KANSAS	170.00	4,838.00			4,366.00	95
96	NORTH CENTRAL KANSAS					31.30	96
97	NORTHWEST KANSAS					69.00	97
98	SOUTHEAST KANSAS	145.91				250.97	98
99	SOUTH CENTRAL KANSAS					347.40	99
100	SOUTHWEST KANSAS					75.00	100
101	APPALACHIAN	19.96				11.85	101
102	BLUEGRASS	323.26	727.00			1,229.30	102
103	HUNTINGTON-ASHL.-PORTSM.-IPONTON		3,094.00	2,675.00		5,892.00	103
104	NORTH CENTRAL KENTUCKY						104
105	SOUTH CENTRAL KENTUCKY	170.00				107.00	105
106	SOUTHERN LOUISIANA-SE TEXAS					1,955.40	106
107	ANAPSCOON VALLEY	79.90		187.00		237.90	107
108	ARLINGTON						108
109	DOWN EAST						109
110	METROPOLITAN PORTLAND	180.80				390.50	110
111	NORTHWEST MAINE						111
112	CENTRAL MARYLAND						112
113	CUMBERLAND-KEYSER	180.00	5,418.00			754.00	113
114	EASTERN SHORE	134.00				86.00	114
115	METROPOLITAN BALTIMORE	1,287.00	6,104.00	3,035.00		6,443.00	115
116	SOUTHERN MARYLAND		3,448.00			3,123.00	116
117	BERKSHIRE						117
118	CENTRAL MASSACHUSETTS	40.00				34.00	118
119	METROPOLITAN BOSTON		3,786.20			1,970.96	119
120	METROPOLITAN PROVIDENCE	432.40	2,605.20			1,901.30	120
121	WEEPWACK VALLEY-SOUTHERN N.H.		766.00	332.00		509.00	121
122	CENTRAL MICHIGAN	454.10	8,558.60			1,632.00	122
123	METROPOLITAN DETROIT-PORT HURON	2,923.00	16,955.00	15,374.20		6,023.50	123
124	METROPOLITAN TOLEDO	216.50	8,836.80	1,617.20		4,145.30	124
125	SOUTH CENTRAL MICHIGAN	119.60	1,584.20			1,132.80	125
126	UPPER MICHIGAN	119.00				175.00	126
127	CENTRAL MINNESOTA						127
128	SOUTHEAST MINNESOTA-LA CROSSE	247.90	811.00		300.00	1,094.28	128
129	DULUTH-SUPERIOR	246.00				656.00	129
130	METROPOLITAN FARGO-MOORHEAD						130
131	MINNEAPOLIS-ST. PAUL	158.40	4,640.00			3,416.00	131
132	NORTHWEST MINNESOTA	142.70				133.70	132
133	SOUTHWEST MINNESOTA	52.00				169.00	133
134	MISSISSIPPI DELTA					60.00	134
135	NORTHEAST MISSISSIPPI						135
136	NORTHERN MICHIGAN	93.00	1,502.00			57.98	136
137	NORTHERN MISSOURI		702.00			749.00	137
138	SOUTHEAST MISSOURI						138
139	SOUTHWEST MISSOURI		2,046.96			1,280.95	139
140	ROLLINGS		1,030.00			308.00	140
141	GREAT FALLS						141
142	HELENA						142
143	MILES CITY	49.00				43.20	143
144	MISSOULA						144
145	LINCOLN-BEATRICE-FAIRBURY	169.00				173.20	145
146	NEBRASKA					25.92	146
147	NEVADA						147
148	NORTHWEST NEVADA					141.00	148
149	NEW HAMPSHIRE						149
150	NEW JERSEY		901.30			347.60	150
151	NE PENN.-UPPER DELAWARE VALLEY		3,432.00	2,288.00		1,090.80	151
152	ALBUQUERQUE-MID RIO GRANDE					17.80	152
153	EL PASO-LAS CRUCES-ALAMOGORDO					153.00	153
154	NORTHEASTERN PLAINS						154
155	PECCS-PEPMIAN BASIN					55.55	155
156	SOUTHWESTERN MTS-AUGUSTINE PLAIN						156
157	UPPER RIO GRANDE VALLEY						157
158	CENTRAL NEW YORK	341.30				222.90	158
159	CHAMPLAIN VALLEY	54.00				24.00	159
160	GENESEE-FINGER LAKES	98.99	2,260.90	197.00		753.21	160
161	HUDSON VALLEY	317.10	2,973.00			824.00	161
162	NIAGARA FRONTIER			1,417.80		1,730.10	162
163	SOUTHERN TIER EAST	106.90	330.54			148.17	163
164	SOUTHERN TIER WEST	257.30	777.31	832.40		2,178.67	164
165	EASTERN MOUNTAIN	222.00	2,290.00	1,439.00		1,133.94	165
166	EASTERN PIEDMONT	571.50				709.50	166
167	METROPOLITAN CHARLOTTE		5,292.00	1,094.00		756.60	167
168	NORTHERN COASTAL PLAIN						168

TABLE 5-B

(Contd)-INSTALLED COSTS OF AIR POLLUTION CONTROL EQUIPMENT, BY AIR QUALITY REGION, 1971

A O C R N O	AIR QUALITY CONTROL REGION	INSTALLED COSTS (\$1,000)					A O C R N O
		MECHANICAL PRECIPITATORS	ELECTROSTATIC PRECIPITATORS	COMBINED PRECIPITATORS	DESULFURIZATION SYSTEMS	STACKS	
169	SANDHILLS	90.60					169
170	SOUTHERN COASTAL PLAIN	362.30				78.40	170
171	WESTERN MOUNTAIN		525.00	508.00		292.10	171
						505.20	
172	NORTH DAKOTA	576.10				632.90	172
173	DAYTON	444.00		1,334.00		451.00	173
174	GREATER METROPOLITAN CLEVELAND	68.00	5,214.00	3,425.00		3,483.00	174
175	WANSFIELD-NARION						175
176	METROPOLITAN COLUMBUS	180.00				165.00	176
177	NORTHWEST OHIO						177
178	NORTHWEST PENN.-YOUNGSTOWN	172.00	2,804.96	2,154.00		1,878.18	178
179	PARKERSBURG-MARIETTA	759.00	407.00	1,885.00		1,697.00	179
180	SANDUSKY						180
181	STEUBENVILLE-WEIRTON-WHEELING	553.00	21,072.00	724.00		20,061.00	181
182	WILMINGTON-CHILLICOTHE-LOGAN						182
183	ZANESVILLE-CAMBRIDGE	287.00				788.00	183
184	CENTRAL OKLAHOMA					627.70	184
185	NORTH CENTRAL OKLAHOMA					24.30	185
186	NORTHEASTERN OKLAHOMA					265.10	186
187	NORTHWESTERN OKLAHOMA						187
188	SOUTHEASTERN OKLAHOMA					137.70	188
189	SOUTHWESTERN OKLAHOMA						189
190	CENTRAL OREGON						190
191	EASTERN OREGON						191
192	NORTHWEST OREGON						192
193	PORTLAND					300.30	193
194	SOUTHWEST OREGON						194
195	CENTRAL PENNSYLVANIA	34.65		4,016.30		592.79	195
196	SOUTH CENTRAL PENNSYLVANIA		3,914.00	1,035.00		1,457.00	196
197	SOUTHWEST PENNSYLVANIA	402.50	20,603.20	5,750.10		14,802.50	197
198	CAMDEN-CUMTER						198
199	CHARLESTON	52.00	354.00			685.74	199
200	COLUMBIA		2,319.82			877.72	200
201	FLORENCE	89.60				105.60	201
202	GREENVILLE-SPARTANBURG	97.00	1,716.00			56.82	202
203	GREENWOOD						203
204	GEORGETOWN		423.00			338.00	204
205	BLACK HILLS-RAPID CITY						205
206	SOUTH DAKOTA						206
207	EASTERN TENN.-SOUTHWESTERN VA.	465.40	3,367.00	2,409.00		3,185.00	207
208	MIDDLE TENNESSEE	960.00		5,524.00		1,075.00	208
209	WESTERN TENNESSEE					158.06	209
210	ABILENE-WICHITA FALLS						210
211	AMARILLO-LUBBOCK					218.06	211
212	AUSTIN-WACO		1,726.00			778.12	212
213	BROWNSVILLE-LAREDO					345.90	213
214	CORPUS CHRISTI-VICTORIA					766.60	214
215	METROPOLITAN DALLAS-FORT WORTH					1,284.58	215
216	METROPOLITAN HOUSTON-GALVESTON						216
217	METROPOLITAN SAN ANTONIO					222.60	217
218	MIDLAND-ODESSA-SAN ANGELO					186.50	218
219	UTAH	173.88				119.89	219
220	WASATCH FRONT			680.75		364.92	220
221	VERMONT						221
222	CENTRAL VIRGINIA						222
223	HAMPTON ROADS	682.00	877.00	1,579.00		574.00	223
224	NORTHEASTERN VIRGINIA	356.00				166.00	224
225	STATE CAPITAL	16.00	4,414.00	428.00		829.00	225
226	VALLEY OF VIRGINIA	207.00				27.00	226
227	NORTHERN WASHINGTON						227
228	OLYMPIA-NORTHWEST WASHINGTON						228
229	PUGET SOUND						229
230	SOUTH CENTRAL WASHINGTON						230
231	ALLEGHENY						231
232	CENTRAL WEST VIRGINIA						232
233	EASTERN PANHANDLE						233
234	KANAWHA VALLEY		6,523.00			6,946.00	234
235	NORTH CENTRAL WEST VIRGINIA	889.00	4,121.00	673.00		1,759.00	235
236	SOUTHERN WEST VIRGINIA					795.00	236
237	LAKE MICHIGAN		2,657.00				237
238	NORTH CENTRAL WISCONSIN					64.00	238
239	SOUTHEASTERN WISCONSIN		9,253.00			3,037.00	239
240	SOUTHERN WISCONSIN	381.00				277.00	240
241	CASPER	344.00				391.00	241
242	METROPOLITAN CHEYENNE						242
243	WYOMING	316.33	814.00			881.91	243
244	PUEBLO PICO						244
245	AMERICAN SAMOA						245
246	GUAM						246
247	U. S. VIRGIN ISLANDS						247
	U. S. TOTALS	41,641.11	341,297.49	131,149.71	1,604.00	271,791.44	

TABLE 6-A
NUMBER OF PLANTS, CAPACITIES, AND TYPES OF COOLING BY REGION AND STATE, 1971

LINE NO	GEOGRAPHIC REGION AND STATE	ONCE THROUGH FRESH		ONCE THROUGH SALINE		COOLING PONDS		COOLING TOWERS		COMBINED SYSTEMS		LINE NO
		NO. OF PLANTS	CAPACITY (MW)	NO. OF PLANTS	CAPACITY (MW)	NO. OF PLANTS	CAPACITY (MW)	NO. OF PLANTS	CAPACITY (MW)	NO. OF PLANTS	CAPACITY (MW)	
1	NEW ENGLAND											1
2	CONNECTICUT	4	1,875.25	6	1,683.70					1	660.50	2
3	MAINE			2	361.00							3
4	MASSACHUSETTS	6	686.84	11	3,710.20					3	682.50	4
5	NEW HAMPSHIRE	1	459.24	1	178.75							5
6	RHODE ISLAND			3	311.40							6
7	VERMONT	1	30.00									7
	TOTALS	12	3,051.33	23	6,245.05					4	1,343.00	
8	MIDDLE ATLANTIC											8
9	NEW JERSEY	3	1,270.10	14	5,896.50							9
10	NEW YORK	14	4,968.46	18	10,769.86							10
11	PENNSYLVANIA	31	10,213.89	1	476.75			3	4,688.00	4	2,438.90	11
	TOTALS	48	16,452.45	33	17,143.11			3	4,688.00	4	2,438.90	
12	EAST NORTH CENTRAL											12
13	ILLINOIS	28	11,844.01			3	2,330.96	2	212.30	1	1,829.00	13
14	INDIANA	19	10,074.02							3	824.98	14
15	MICHIGAN	23	9,816.40							1	386.00	15
16	OHIO	27	15,169.42			1	37.50	1	232.00	1	1,529.60	16
17	WISCONSIN	19	5,518.60									17
	TOTALS	116	52,422.45			4	2,368.46	3	444.30	6	4,569.58	
18	WEST NORTH CENTRAL											18
19	IOWA	11	1,511.31			1	92.20	3	261.80	1	325.00	19
20	KANSAS	5	693.63					7	2,009.45	3	639.10	20
21	MINNESOTA	10	1,553.90							4	1,790.76	21
22	MISSOURI	10	5,102.84			2	1,033.10	3	377.30	2	407.50	22
23	NEBRASKA	4	965.40					2	258.65			23
24	NORTH DAKOTA	3	488.00			1	256.50					24
25	SOUTH DAKOTA							2	123.00			25
	TOTALS	43	10,315.08			4	1,381.80	17	3,030.20	10	3,162.36	
26	SOUTH ATLANTIC											26
27	DELAWARE	1	389.80	2	470.00			1	37.50			27
28	DISTRICT OF COLUMBIA	1	538.00							1	538.00	28
29	FLORIDA	13	2,131.85	18	9,230.35			2	154.10	1	651.00	29
30	GEORGIA	6	3,681.00	3	563.50			1	806.00	1	953.00	30
31	MARYLAND	2	679.50	7	3,606.60					1	256.50	31
32	NORTH CAROLINA	7	5,164.00			2	1,481.50			3	988.92	32
33	SOUTH CAROLINA	3	970.60	1	97.75	1	206.63	1	34.10	5	1,799.60	33
34	VIRGINIA	7	3,313.20	3	1,124.63			1	712.50			34
35	WEST VIRGINIA	8	3,499.00					3	3,600.90	1	1,140.48	35
	TOTALS	48	20,366.95	34	15,092.83	3	1,688.13	9	5,345.10	13	6,327.50	
36	EAST SOUTH CENTRAL											36
37	ALABAMA	10	7,746.31					3	1,858.30	2	2,752.20	37
38	KENTUCKY	11	4,530.00					3	338.00	2	603.70	38
39	MISSISSIPPI	2	1,405.23	1	595.50							39
40	TENNESSEE	7	7,443.65					6	2,196.30	4	3,355.90	40
	TOTALS	30	21,125.19	1	595.50							
41	WEST SOUTH CENTRAL											41
42	ARKANSAS	4	1,840.48					3	585.25			42
43	LOUISIANA	8	4,453.65	2	1,177.50	2	447.00	7	1,732.27	1	483.28	43
44	OKLAHOMA	2	235.90			1	567.00	9	2,578.30	3	1,027.48	44
45	TEXAS	7	1,904.12	4	2,222.50	23	11,267.78	29	5,822.98	11	6,038.82	45
	TOTALS	21	8,434.15	6	3,400.00	26	12,281.78	48	10,718.80	15	7,549.58	
46	MOUNTAIN											46
47	ARIZONA					1	113.60	7	1,667.71	2	138.00	47
48	COLORADO					1	281.75	4	1,277.50	6	450.75	48
49	IDAHO											49
50	MONTANA	3	291.80									50
51	NEVADA					1	220.00	4	2,009.15	1	133.00	51
52	NEW MEXICO					1	2,269.80	7	901.10	1	44.30	52
53	UTAH	2	84.00					2	440.28			53
54	WYOMING	1	456.70					1	707.20			54
	TOTALS	6	832.50			4	2,885.15	25	7,002.94	10	766.05	
55	PACIFIC											55
56	CALIFORNIA	1	1,277.80	22	16,506.95			14	3,125.39			56
57	OREGON	3	136.00									57
58	WASHINGTON	3	918.64									58
	TOTALS	7	2,332.44	22	16,506.95			14	3,125.39			
59	NON-CONTIGUOUS U.S.											59
60	ALASKA			3	451.93					1	395.00	60
61	HAWAII			3	1,578.40							61
62	PUERTO RICO											62
63	VIRGIN ISLANDS											63
	TOTALS			6	2,030.33					1	395.00	
64	U.S. TOTALS	331	135,332.56	125	61,013.77	41	20,605.32	125	36,551.03	67	29,907.87	64

TABLE 6-B
NUMBER OF PLANTS, CAPACITIES, AND TYPES OF COOLING BY WATER RESOURCE REGION 1971

LINE NO	WATER RESOURCE REGION	ONCE THROUGH FRESH		ONCE THROUGH SALINE		COOLING PONDS		COOLING TOWERS		COMBINED SYSTEMS		LINE NO
		NO. OF PLANTS	CAPACITY (MW)	NO. OF PLANTS	CAPACITY (MW)	NO. OF PLANTS	CAPACITY (MW)	NO. OF PLANTS	CAPACITY (MW)	NO. OF PLANTS	CAPACITY (MW)	
1	NEW ENGLAND	12	3,051.33	26	7,866.50					4	1,343.00	1
2	MIDDLE ATLANTIC	36	13,142.52	42	20,722.89			1	37.50	6	2,645.88	2
3	SOUTH ATLANTIC - GULF	36	16,396.88	23	10,487.10	2	1,274.48	5	460.20	10	4,392.52	3
4	GREAT LAKES	60	26,319.70			1	37.50			1	386.00	4
5	OHIO	68	33,399.82					12	10,591.50	7	6,834.78	5
6	TENNESSEE	10	9,389.96			1	413.65	1	712.50			6
7	UPPER MISSISSIPPI	50	14,125.02			4	2,423.16	3	261.80	4	3,239.06	7
8	LOWER MISSISSIPPI	12	8,431.89	2	1,177.50			8	1,838.77	3	1,086.98	8
9	SOURIS - RED - RAINY	1	116.10							1	136.90	9
10	MISSOURI	24	4,827.02			4	1,571.35	9	2,211.30	3	611.85	10
11	ARKANSAS - WHITE - RED	6	1,811.74			8	3,278.02	25	5,867.82	8	1,747.23	11
12	TEXAS - GULF	7	1,904.12	3	1,961.50	17	8,410.36	18	3,691.66	11	6,038.82	12
13	RIO GRANDE							12	1,917.55	1	44.30	13
14	UPPER COLORADO					1	2,269.80	2	351.84	2	109.50	14
15	LOWER COLORADO					1	113.60	11	2,208.36	2	138.00	15
16	GREAT BASIN	2	84.00			1	220.00	3	2,468.84	1	133.00	16
17	COLUMBIA - NORTH PACIFIC	6	1,054.64					1	806.00			17
18	CALIFORNIA - SOUTH PACIFIC	1	1,277.80	22	16,506.95			14	3,125.39	1	56.25	18
19	TOTALS - CONTIGUOUS U.S.	331	135,332.54	118	58,722.44	40	20,011.92	125	36,551.03	65	28,944.07	19
20	ALASKA									1	568.80	20
21	HAWAII			3	451.93					1	395.00	21
22	PUERTO RICO			3	1,578.40							22
23	TOTALS - NON-CONTIGUOUS U.S.			7	2,291.33	1	593.40			2	963.80	23
24	TOTALS - UNITED STATES	331	135,332.54	125	61,013.77	41	20,605.32	125	36,551.03	67	29,907.87	24

TABLE 7-A
AVERAGE COOLING WATER USE, BY REGION AND STATE, 1971

LINE NO	GEOGRAPHIC REGION AND STATE	TOTAL DESIGNED CONDENSER FLOW (CFS)		AVERAGE RATE OF WATER USE DURING THE YEAR (CFS)						LINE NO
				WITHDRAWAL		CONSUMPTION		DISCHARGE		
		FRESH	SALINE	FRESH	SALINE	FRESH	SALINE	FRESH	SALINE	
1	NEW ENGLAND									1
2	CONNECTICUT	2,713.00	3,649.15	2,617.06	2,858.32			2,617.06	2,858.32	2
3	MAINE		513.70		336.28		.18		336.10	3
4	MASSACHUSETTS	1,888.90	5,290.39	1,677.10	3,843.73	.40		1,676.70	3,843.73	4
5	NEW HAMPSHIRE	416.00	245.00	444.00	252.40			444.00	252.40	5
6	RHODE ISLAND		854.00		730.10				757.60	6
7	VERMONT	68.10		38.70		.80		37.40		7
	TOTALS	5,086.00	10,552.24	4,776.86	8,020.83	1.20	.18	4,775.16	8,048.15	
8	MIDDLE ATLANTIC									8
9	NEW JERSEY	1,985.60	9,732.88	2,041.00	8,733.00			2,041.00	8,733.00	9
10	NEW YORK	7,446.30	18,268.36	6,549.48	11,089.00	1.93		6,549.56	11,089.00	10
11	PENNSYLVANIA	21,295.20	872.00	15,104.29	695.00	68.08		15,036.36	695.00	11
	TOTALS	30,727.10	28,873.24	23,694.77	20,517.00	70.01		23,626.92	20,517.00	
12	EAST NORTH CENTRAL									12
13	ILLINOIS	26,494.05		12,783.50		31.90		12,751.65		13
14	INDIANA	16,208.47		12,381.88		5.02		12,376.87		14
15	MICHIGAN	17,108.60		12,033.26		41.33		11,991.76		15
16	OHIO	23,581.28		17,864.19		17.43		17,846.76		16
17	WISCONSIN	9,521.50		6,251.20		79.70		6,171.40		17
	TOTALS	92,913.90		61,314.03		175.38		61,138.44		
18	WEST NORTH CENTRAL									18
19	IOWA	3,314.10		1,854.05		19.73		1,838.32		19
20	KANSAS	4,773.50		691.82		81.65		610.16		20
21	MINNESOTA	4,855.30		2,614.25		5.44		2,608.81		21
22	MISSOURI	6,365.27		4,217.35		20.85		4,197.80		22
23	NEBRASKA	1,932.70		905.82		1.79		904.00		23
24	NORTH DAKOTA	731.34		459.04		3.85		455.24		24
25	SOUTH DAKOTA	233.40		3.27		.77		2.50		25
	TOTALS	22,205.61		10,745.60		134.08		10,616.83		
26	SOUTH ATLANTIC									26
27	DELAWARE	584.00	739.00	630.00	764.00			630.00	764.00	27
28	DISTRICT OF COLUMBIA	2,024.00		474.00		3.00		471.00		28
29	FLORIDA	5,025.90	13,901.75	4,108.09	13,722.70	14.29		4,093.80	13,722.70	29
30	GEORGIA	4,483.00	2,075.08	3,511.20	1,362.40	39.90		3,471.30	1,362.40	30
31	MARYLAND	982.50	6,566.00	663.00	4,397.00	.10	4.50	662.90	4,392.50	31
32	NORTH CAROLINA	9,263.00		6,578.50				6,576.20		32
33	SOUTH CAROLINA	3,179.77	201.32	2,636.98	210.67	8.48		2,628.50	210.67	33
34	VIRGINIA	4,803.96	1,342.10	3,858.82	1,340.10	9.76		3,849.05	1,340.10	34
35	WEST VIRGINIA	9,259.60		5,954.21		56.59		5,897.62		35
	TOTALS	39,605.73	24,825.25	28,414.80	21,796.87	132.12	4.50	28,280.37	21,792.37	
36	EAST SOUTH CENTRAL									36
37	ALABAMA	9,773.60		7,621.00		33.31		7,587.69		37
38	KENTUCKY	10,024.01		5,854.58		81.50		5,770.78		38
39	MISSISSIPPI	2,419.50	683.00	1,217.78	752.00	12.07		1,205.71	752.00	39
40	TENNESSEE	9,058.90		6,968.00		53.00		6,915.00		40
	TOTALS	31,276.01	683.00	21,661.36	752.00	179.88		21,479.18	752.00	
41	WEST SOUTH CENTRAL									41
42	ARKANSAS	2,830.35		1,753.29		6.10		1,747.23		42
43	LOUISIANA	8,531.24	1,492.40	5,220.88	1,144.00	167.23		5,053.76	1,144.00	43
44	OKLAHOMA	6,030.02		363.92		66.23		301.58		44
45	TEXAS	34,973.03	3,086.80	11,244.31	1,992.02	175.95	10.24	11,075.82	1,981.78	45
	TOTALS	52,364.64	4,579.20	18,582.40	3,136.02	415.51	10.24	18,178.39	3,125.78	
46	MOUNTAIN									46
47	ARIZONA	1,887.60		133.22		31.62		100.50		47
48	COLORADO	2,912.30		275.51		28.25		248.25		48
49	IDAHO									49
50	MONTANA	239.70		185.00		.10		184.90		50
51	NEVADA	1,632.70		76.31		28.35		47.96		51
52	NEW MEXICO	3,169.23		126.98		31.08		96.15		52
53	UTAH	1,261.50		128.00		7.00		121.00		53
54	WYOMING	827.00		298.00		10.80		290.80		54
	TOTALS	11,930.03		1,223.02		137.20		1,089.56		
55	PACIFIC									55
56	CALIFORNIA	5,557.60	17,722.80	1,085.29	14,158.47	21.53	.27	1,063.76	14,158.20	56
57	OREGON	424.20		57.40				57.40		57
58	WASHINGTON	2,108.20		836.00				836.00		58
	TOTALS	8,090.00	17,722.80	1,978.69	14,158.47	21.53	.27	1,957.16	14,158.20	
59	NON-CONTIGUOUS U.S.									59
60	ALASKA									60
61	HAWAII		1,867.00		1,473.00				1,473.00	61
62	PUERTO RICO		2,715.80		2,710.18				2,710.18	62
63	VIRGIN ISLANDS									63
	TOTALS		4,582.80		4,183.18				4,183.18	
64	U.S. TOTALS	294,199.02	91,818.53	172,391.53	72,564.37	1,266.91	15.19	171,142.01	72,576.68	64

Note: The following corrected figures for 1969 should be substituted for those shown in FPC publication S-229:

	Average Rate of Water Use During 1969 (CFS)		
	Withdrawal Fresh	Consumption Fresh	Discharge Fresh
Kentucky	7,064.02	133.32	6,820.70
East South Central-totals	22,884.37	234.98	22,639.39
U. S. Totals	165,231.75	1,058.29	164,158.17

TABLE 7-B
AVERAGE COOLING WATER USE, BY WATER RESOURCE REGION, 1971

LINE NO	WATER RESOURCE REGION	TOTAL DESIGNED CONDENSER FLOW (CFS)		AVERAGE RATE OF WATER USE DURING THE YEAR (CFS)						LINE NO
				WITHDRAWAL		CONSUMPTION		DISCHARGE		
		FRESH	SALINE	FRESH	SALINE	FRESH	SALINE	FRESH	SALINE	
1	NEW ENGLAND	5,086.00	12,433.62	4,776.86	9,648.83	1.20	.18	4,775.16	9,676.15	1
2	MIDDLE ATLANTIC	21,022.96	35,638.96	18,007.08	25,390.10	34.02	4.50	17,973.20	25,385.60	2
3	SOUTH ATLANTIC - GULF	26,933.87	16,861.15	21,211.42	16,047.77	27.72		21,183.70	16,047.77	3
4	GREAT LAKES	46,839.70		32,919.82		121.84		32,799.72		4
5	OHIO	61,657.10		41,646.91		217.18		41,427.49		5
6	TENNESSEE	13,190.10		9,176.40		78.50		9,095.60		6
7	UPPER MISSISSIPPI	30,628.31		15,243.55		34.93		15,212.62		7
8	LOWER MISSISSIPPI	12,047.94	1,492.40	9,211.23	1,144.00	180.84		8,030.49	1,144.00	8
9	SOUFIS - RED - RAINY	365.80		317.85		.04		317.81		9
10	MISSOURI	10,564.82		5,102.76		117.27		4,990.41		10
11	ARKANSAS - WHITE - RED	17,100.20		2,704.15		118.53		2,590.76		11
12	TEXAS - GULF	28,355.03	2,761.80	10,213.99	1,793.02	150.45	10.24	10,072.10	1,782.78	12
13	PID GRANDE	2,986.60		117.45		24.04		92.49		13
14	UPPER COLORADO	2,129.10		131.08		24.26		106.82		14
15	LOWER COLORADO	2,664.73		145.23		42.12		101.86		15
16	GREAT BASIN	2,484.10		197.30		30.70		166.60		16
17	COLUMBIA - NORTH PACIFIC	3,107.40		941.00		36.10		904.90		17
18	CALIFORNIA - SOUTH PACIFIC	5,633.26	17,722.80	1,087.45	14,158.47	22.17	.27	1,065.28	14,158.20	18
19	TOTALS - CONTIGUOUS U.S.	292,797.02	86,910.73	172,151.53	68,182.19	1,261.91	15.19	170,907.01	68,194.50	19
20	ALASKA	645.00		240.00		5.00		235.00		20
21	HAWAII		1,867.00		1,473.00				1,473.00	21
22	PUEBLO RICH		2,715.80		2,710.18				2,710.18	22
23	TOTALS - NON-CONTIGUOUS U.S.	1,402.00	4,907.80	240.00	4,382.18	5.00		235.00	4,382.18	23
24	TOTALS - UNITED STATES	294,199.02	91,818.53	172,391.53	72,564.37	1,266.91	15.19	171,142.01	72,576.68	24

Note: The following corrected figures for 1969 should be substituted for those shown in FPC publication S-229:

	Average Rate of Water Use During 1969 (CFS)		
	Withdrawal	Consumption	Discharge
	Fresh	Fresh	Fresh
Ohio Region	40,410.41	232.26	40,168.21
Totals-Contiguous United States	165,231.75	1,058.29	164,158.17
Totals-United States	165,231.75	1,058.29	164,158.17

TABLE 8A
USE OF CHEMICAL ADDITIVES, BY REGION AND STATE, 1971

LINE NO	GEOGRAPHIC REGION AND STATE	COOLING WATER ADDITIVES (TONS)				BOILER WATER ADDITIVES (TONS)					LINE NO
		PHOSPHATE	LIME	ALUM	CHLORINE	PHOSPHATE	CAUSTIC SODA	LIME	ALUM	CHLORINE	
1	NEW ENGLAND										1
2	CONNECTICUT				474.90	25.29	618.56				2
3	MAINE			12.20		3.15	3.00		4.80		3
4	MASSACHUSETTS	5.74		6.88	453.66	25.77	1,055.32	2.25	19.02	5.66	4
5	NEW HAMPSHIRE				47.98	.67	104.33				5
6	RHODE ISLAND				13.51	45.43	7.68				6
7	VERMONT					.25	12.35				7
	TOTALS	5.74		19.08	990.05	100.56	1,801.24	2.25	23.82	5.66	
8	MIDDLE ATLANTIC										8
9	NEW JERSEY				4,002.80	31.41	4,887.94	12.41	3.45	.15	9
10	NEW YORK				1,446.54	254.80	2,567.21	248.00	12.40	.72	10
11	PENNSYLVANIA	2.60	4,806.62	626.81	1,644.53	40.32	3,795.91		306.92	20.00	11
	TOTALS	2.60	4,806.62	626.81	7,093.87	326.53	11,251.06	328.46	322.77	20.87	
12	EAST NORTH CENTRAL										12
13	ILLINOIS		394.00	91.00	3,023.36	44.23	3,003.93	771.07	75.53	9.50	13
14	INDIANA		9.15	10.00	1,098.67	25.36	910.58	1,777.65	75.31	31.05	14
15	MICHIGAN				1,566.56	35.32	3,157.44	557.23	79.27	23.57	15
16	OHIO	30.69	1,345.03	154.60	1,731.42	21.98	2,542.62	293.58	37.27	18.56	16
17	WISCONSIN				485.34	46.67	1,621.69	22.27	13.69		17
	TOTALS	30.69	1,748.18	255.60	7,905.35	173.56	11,236.26	3,421.80	281.07	82.68	
18	WEST NORTH CENTRAL										18
19	IOWA		204.25	47.62	199.33	7.59	263.59	117.38	7.62	.35	19
20	KANSAS	105.12	686.28	21.95	224.52	8.05	282.98	88.51	4.98	1.25	20
21	MINNESOTA				210.71	25.27	279.65	16.44	10.67	1.35	21
22	MISSOURI	11.85	245.15	46.68	269.51	59.07	1,549.10	1,472.84	15.38	31.16	22
23	NEBRASKA	2.00	1,288.00	70.50	30.00	2.41	96.39	165.78	20.30		23
24	NORTH DAKOTA				.75	1.10	202.32	92.61	11.85	.54	24
25	SOUTH DAKOTA	1.80	496.25	63.75	7.90	.70	46.55				25
	TOTALS	120.77	2,919.93	250.50	942.72	104.19	2,720.58	1,953.56	70.80	34.65	
26	SOUTH ATLANTIC										26
27	DELAWARE	.21			101.68	3.73	1,243.08	92.63		28.19	27
28	DISTRICT OF COLUMBIA			9.78	34.54	1.94	15.00	9.13			28
29	FLORIDA				1,301.47	20.28	1,820.84	406.85	37.81	13.21	29
30	GEORGIA				682.64	1.47	329.18	9.29	341.00	5.40	30
31	MARYLAND				1,677.63	.63	418.26	22.06	45.30	.10	31
32	NORTH CAROLINA				73.00	15.52	89.73		75.00	6.55	32
33	SOUTH CAROLINA				46.90	3.96	943.68		172.80	1.65	33
34	VIRGINIA			62.57	293.50	9.82	622.71	9.06	108.15	.92	34
35	WEST VIRGINIA				187.74	5.47	950.99	348.91	16.25	11.94	35
	TOTALS	.21		72.35	4,399.10	62.82	6,433.47	897.93	796.31	67.96	
36	EAST SOUTH CENTRAL										36
37	ALABAMA		21.25	53.68	437.77	4.68	200.82		106.41	10.21	37
38	KENTUCKY			91.80	20.01	11.06	536.83	62.64	83.18	5.42	38
39	MISSISSIPPI	5.47	407.35		169.35	2.47	300.20	6.25			39
40	TENNESSEE				627.13	7.92	103.99		57.98	2.61	40
	TOTALS	5.47	428.60	145.48	627.13	26.13	1,141.84	68.89	247.57	18.24	
41	WEST SOUTH CENTRAL										41
42	ARKANSAS		475.41	156.30	97.95	2.29	135.38				42
43	LOUISIANA	4.97		12.95	327.27	17.94	2,221.55	1,164.35	96.53	4.60	43
44	OKLAHOMA	99.96	285.57	15.74	181.20	6.81	304.73	60.19	27.71	9.46	44
45	TEXAS	83.19	3,454.96	153.45	2,345.32	59.46	4,512.96	245.77	5.19	118.37	45
	TOTALS	188.12	4,215.94	338.44	2,951.74	86.50	7,174.62	1,470.31	129.43	132.43	
46	MOUNTAIN										46
47	ARIZONA	52.49			57.84	6.77	196.41	24.20		8.00	47
48	COLORADO	78.65	6.98	60.52	125.80	12.88	17.53	79.49	25.94		48
49	IDAHO										49
50	MONTANA					.15	.11	9.28	1.18	.45	50
51	NEVADA	30.00	2,250.00		426.51	2.41	77.03				51
52	NEW MEXICO	30.14			76.40	6.65	93.03	100.15	21.95		52
53	UTAH	45.00			38.50	5.56	.77				53
54	WYOMING	8.25			30.00	.18	34.42	26.13	6.78		54
	TOTALS	244.53	2,256.98	60.52	755.05	34.60	419.30	239.25	55.85	8.45	
55	PACIFIC										55
56	CALIFORNIA	95.06			1,001.30	51.79	346.47	275.04			56
57	OREGON					2.56	8.75				57
58	WASHINGTON					3.50	1.46				58
	TOTALS	95.06			1,001.30	57.85	356.68	275.04			
59	NON-CONTIGUOUS U.S.										59
60	ALASKA					2.17	1.05				60
61	HAWAII					6.71	1,514.03				61
62	PUERTO RICO				5.40						62
63	VIRGIN ISLANDS										63
	TOTALS				5.40	8.88	1,515.08				
64	U.S. TOTALS	693.19	16,376.25	1,768.78	26,671.71	981.62	44,050.13	8,657.49	1,927.62	370.94	64

TABLE 8-8
USE OF CHEMICAL ADDITIVES, BY WATER RESOURCE REGION, 1971

LINE NO	WATER RESOURCE REGION	COOLING WATER ADDITIVES (TONS)				BOILER WATER ADDITIVES (TONS)					LINE NO
		PHOSPHATE	LIME	ALUM	CHLORINE	PHOSPHATE	CAUSTIC SODA	LIME	ALUM	CHLORINE	
1	NEW ENGLAND	5.74		19.08	993.55	107.37	2,000.40	2.25	23.82	5.66	1
2	MIDDLE ATLANTIC	1.03	2.15	134.93	8,703.88	313.08	9,833.00	401.34	322.70	30.47	2
3	SOUTH ATLANTIC - GULF				2,099.75	43.33	3,055.80	422.39	703.27	34.96	3
4	GREAT LAKES	.55		28.23	3,238.84	108.92	5,866.56	935.53	132.24	24.29	4
5	OHIO	31.92	6,564.90	792.03	2,898.75	72.82	7,234.01	2,183.10	338.76	86.22	5
6	TENNESSEE				371.60	10.46	849.40		88.63	4.31	6
7	UPPER MISSISSIPPI		213.25	100.87	3,276.08	106.98	3,850.03	1,366.68	67.01	9.85	7
8	LOWER MISSISSIPPI	10.44	450.08	261.05	425.15	20.26	2,671.23	1,164.35	96.53	4.60	8
9	SOURIS - RED - RAINY				3.06	.84	1.29		9.61	1.20	9
10	MISSOURI	99.19	2,483.90	200.12	351.66	30.97	652.54	716.35	61.41	32.30	10
11	ARKANSAS - WHITE - RED	192.90	2,619.65	104.06	407.04	17.34	1,245.06	791.15	10.48	3.88	11
12	TEXAS - GULF	61.03	590.71	52.15	2,201.86	48.71	3,885.84	213.39	5.19	118.37	12
13	RIO GRANDE	52.25	1,190.00		66.75	10.64	265.25	31.75			13
14	UPPER COLORADO	22.34	6.98	60.52	56.50	1.72	93.43	96.39	47.89		14
15	LOWER COLORADO	82.49	2,250.00		460.58	8.14	196.57	24.20		8.00	15
16	GREAT BASIN	38.25			65.77	6.15	111.57	26.13			16
17	COLUMBIA - NORTH PACIFIC				12.74	6.31	255.30				17
18	CALIFORNIA - SOUTH PACIFIC	95.06	4.63	15.74	1,006.75	57.20	402.52	280.99	20.08	6.83	18
19	TOTALS - CONTIGUOUS U.S.	693.19	16,376.25	1,768.78	26,640.31	971.24	42,469.76	8,655.99	1,927.62	370.94	19
20	ALASKA				26.00		5.00	1.50			20
21	HAWAII					2.17	1.05				21
22	PUERTO RICO				5.40	6.71	1,514.03				22
23	TOTALS - NON-CONTIGUOUS U.S.				31.40	10.38	1,580.37	1.50			23
24	TOTALS - UNITED STATES	693.19	16,376.25	1,768.78	26,671.71	981.62	44,050.13	8,657.49	1,927.62	370.94	24

TABLE 9-A
WATER TREATMENT EXPENSES AND COOLING FACILITY COSTS BY REGION AND STATE, 1971

LINE N D	GEOGRAPHIC REGION AND STATE	COSTS OF INSTALLED FACILITIES (\$1,000)				ANNUAL EXPENSES (\$1,000)				LINE N D
		COOLING WATER				COOLING WATER		BOILER WATER MAKEUP & BLOWDOWN TREATMENT		
		ONCE THROUGH FRESH	ONCE THROUGH SALINE	COOLING POND	COOLING TOWERS	OPERATION MAINTENANCE	CHEMICAL ADDITIONS	OPERATION MAINTENANCE	CHEMICAL ADDITIONS	
1	NEW ENGLAND									1
2	CONNECTICUT	1.56	9,016.33		100.18	887.81	98.08	551.09	152.52	2
3	MAINE		2,773.70				6.90		20.50	3
4	MASSACHUSETTS	3,873.55	12,967.95		477.24	557.30	87.75	651.20	217.89	4
5	NEW HAMPSHIRE	1,924.00	1,889.00			100.30	16.90	84.10	23.70	5
6	RHODE ISLAND		3,161.00			16.60	5.76	19.50	16.08	6
7	VERMONT	141.00				4.50		3.00	3.00	7
	TOTALS	5,940.11	29,807.98		577.42	1,566.51	215.39	1,308.89	433.69	
8	MIDDLE ATLANTIC									8
9	NEW JERSEY	4,632.40	30,500.10			845.60	325.30	1,247.98	526.45	9
10	NEW YORK	34,363.90	46,858.67			2,272.60	338.34	3,493.19	574.47	10
11	PENNSYLVANIA	41,175.77		42.80	29,038.20	1,769.92	343.69	1,771.40	1,692.87	11
	TOTALS	80,172.07	77,358.77	42.80	29,038.20	4,888.12	1,007.33	6,512.57	2,793.79	
12	EAST NORTH CENTRAL									12
13	ILLINOIS	81,344.60		33,609.00	2,887.00	1,898.21	462.85	2,530.74	868.10	13
14	INDIANA	35,695.80			1,403.60	1,051.09	131.71	1,608.94	277.93	14
15	MICHIGAN	16,039.00		1,100.00	1,015.00	1,421.87	131.35	6,307.71	330.53	15
16	OHIO	59,660.00			7,594.00	2,936.50	288.90	2,164.00	647.20	16
17	WISCONSIN	20,623.70				993.38	114.69	509.74	308.68	17
	TOTALS	213,363.10		34,709.00	12,899.60	8,301.05	1,129.50	13,121.13	2,432.44	
18	WEST NORTH CENTRAL									18
19	IOWA	8,666.00		314.00	2,836.32	287.90	107.20	381.00	194.10	19
20	KANSAS	4,669.24		812.00	15,718.89	593.61	356.13	280.17	175.69	20
21	MINNESOTA	17,460.00		282.00	4,835.00	620.20	53.57	179.10	76.42	21
22	MISSOURI	30,932.30		3,482.00	2,409.03	449.48	87.13	959.73	300.54	22
23	NEBRASKA	6,618.40			2,591.80	99.41	102.67	79.63	56.59	23
24	NORTH DAKOTA	2,341.80		850.00		30.60	1.00	83.90	100.70	24
25	SOUTH DAKOTA	2,337.00			884.00	120.00	48.40	40.00	1.60	25
	TOTALS	73,024.74		5,740.00	29,275.04	2,201.20	756.10	2,003.53	905.64	
26	SOUTH ATLANTIC									26
27	DELAWARE	2,533.00	385.00			144.00	21.46	66.36	134.31	27
28	DISTRICT OF COLUMBIA	1,677.00			460.00	139.40		127.70		28
29	FLORIDA	11,422.70	40,553.50		5,230.40	768.00	241.80	935.00	387.00	29
30	GEORGIA	811.50	1,555.30		3,735.00	486.20	81.00	544.70	137.10	30
31	MARYLAND	3,167.00	28,530.00		469.00	917.70	45.70	452.40	24.70	31
32	NORTH CAROLINA	15,682.40		10,168.80	101.50	388.56	29.46	76.42	48.13	32
33	SOUTH CAROLINA	4,948.09	37.00	6,731.25	3,923.70	74.85	16.09	77.16	128.44	33
34	VIRGINIA	13,182.00	6,616.00		985.00	341.10	55.50	470.50	98.20	34
35	WEST VIRGINIA	2,645.00		6,523.00	25,292.00	735.05	31.95	526.28	168.24	35
	TOTALS	56,066.69	77,676.80	23,423.05	40,196.60	3,994.86	522.96	3,276.52	1,126.12	
36	EAST SOUTH CENTRAL									36
37	ALABAMA	24,796.00				223.00		531.00	222.00	37
38	KENTUCKY	36,106.44			8,318.72	735.89	194.95	390.74	177.70	38
39	MISSISSIPPI	6,818.20	1,090.70	3,027.50	1,791.78	484.92	106.05	145.65	53.13	39
40	TENNESSEE	19,385.00				214.00	19.00	298.00	97.60	40
	TOTALS	87,105.64	1,090.70	3,027.50	10,110.50	1,657.81	320.00	1,365.39	550.43	
41	WEST SOUTH CENTRAL									41
42	ARKANSAS	8,860.10			1,827.20	96.07	79.32	54.53	56.19	42
43	LOUISIANA	18,443.90	5,325.30	1,911.50	13,647.74	274.60	145.42	721.60	640.72	43
44	OKLAHOMA	1,077.20		8,599.40	7,505.18	114.70	287.90	42.70	98.00	44
45	TEXAS	2,215.60	3,668.00	42,929.88	34,605.68	1,421.32	735.37	757.95	722.78	45
	TOTALS	30,596.80	8,993.30	53,440.78	57,585.80	1,906.69	1,248.01	1,576.76	1,517.69	
46	MOUNTAIN									46
47	ARIZONA	356.92		730.00	7,162.33	134.09	118.94	140.22	23.42	47
48	COLORADO	1,344.00		1,426.00	5,758.00	344.98	179.18	92.47	37.61	48
49	IDAHO									49
50	MONTANA	1,502.70				23.00		23.50	2.50	50
51	NEVADA	118.00		1,328.00	1,308.00	410.07	319.70	297.47	19.83	51
52	NEW MEXICO			11,280.00	4,227.34	213.40	72.07	60.00	91.10	52
53	UTAH	76.08			2,286.06	159.30	86.65	63.20	12.26	53
54	WYOMING	3,232.00			2,582.70	80.40	23.60	63.30	28.26	54
	TOTALS	6,629.70		14,764.00	23,324.43	1,365.24	800.14	740.16	214.98	
55	PACIFIC									55
56	CALIFORNIA	3,342.00	85,304.40		19,212.90	1,922.44	418.73	1,030.35	304.22	56
57	OREGON	488.00				8.30		5.40	5.80	57
58	WASHINGTON	3,556.00				35.91		71.42	3.59	58
	TOTALS	7,386.00	85,304.40		19,212.90	1,966.65	418.73	1,107.17	313.61	
59	NON-CONTIGUOUS U.S.									59
60	ALASKA		8,384.67			86.00		66.50	52.10	60
61	HAWAII						16.64		183.43	61
62	PUERTO RICO									62
63	VIRGIN ISLANDS									63
	TOTALS		8,384.67			86.00	16.64	66.50	235.53	
64	U.S. TOTALS	560,286.85	288,616.62	135,147.13	222,220.49	27,934.13	6,434.80	31,078.64	10,523.92	64

TABLE 9-B

WATER TREATMENT EXPENSES AND COOLING FACILITY COSTS BY WATER RESOURCE REGION, 1971

L I N E N O	WATER RESOURCE REGION	COSTS OF INSTALLED FACILITIES (\$1,000)				ANNUAL EXPENSES (\$1,000)				L I N E N O
		COOLING WATER				COOLING WATER		BOILER WATER MAKEUP & BLOWDOWN TREATMENT		
		ONCE THROUGH FRESH	ONCE THROUGH SALINE	COOLING PONDS	COOLING TOWERS	OPERATION MAINTENANCE	CHEMICAL ADDITIONS	OPERATION MAINTENANCE	CHEMICAL ADDITIONS	
1	NEW ENGLAND	5,940.11	37,380.98		577.42	1,860.51	236.39	1,488.89	467.69	1
2	MIDDLE ATLANTIC	46,487.60	105,316.77	6,565.80	2,104.20	4,534.15	853.83	6,432.71	2,210.77	2
3	SOUTH ATLANTIC - GULF	48,200.69	43,236.50	14,168.05	10,294.60	1,892.27	433.16	2,058.01	906.55	3
4	GREAT LAKES	95,924.33		1,100.00	1,015.00	3,790.25	421.26	8,777.05	933.80	4
5	OHIO	144,512.48			73,358.32	5,883.37	773.66	3,679.54	1,944.53	5
6	TENNESSEE	29,395.00		2,732.00	985.00	433.16	50.68	1,004.72	155.22	6
7	UPPER MISSISSIPPI	94,561.20		34,205.00	4,469.32	2,395.84	551.24	2,787.98	1,082.98	7
8	LOWER MISSISSIPPI	32,347.20	5,325.30	4,027.50	14,579.02	709.87	214.30	781.73	712.64	8
9	SOURIS - RED - RAINY	1,339.00			542.00	30.70	.57	47.10	9.32	9
10	MISSOURI	31,625.70		5,310.00	14,070.78	901.92	471.52	1,118.01	371.98	10
11	ARKANSAS - WHITE - RED	13,334.94		13,425.46	28,611.32	1,042.14	738.49	433.67	314.09	11
12	TEXAS - GULF	2,215.60	2,046.00	34,465.32	23,364.98	973.34	478.75	608.62	614.31	12
13	RIO GRANDE				8,432.80	364.18	177.09	77.93	60.27	13
14	UPPER COLORADO	937.00		11,629.00	1,112.51	164.52	74.80	52.32	77.96	14
15	LOWER COLORADO	356.92		730.00	8,707.07	544.56	428.97	438.69	34.15	15
16	GREAT BASIN	194.08		1,328.00	4,388.25	108.70	89.32	89.80	48.22	16
17	COLUMBIA - NORTH PACIFIC	4,044.00			3,735.00	44.21		76.82	9.39	17
18	CALIFORNIA - SOUTH PACIFIC	3,342.00	85,304.40		19,212.90	1,922.44	418.73	1,030.35	304.22	18
19	TOTALS - CONTIGUOUS U.S.	554,757.85	278,609.95	129,686.13	219,560.49	27,596.13	6,412.76	30,983.94	10,258.09	19
20	ALASKA	5,529.00			2,660.00	250.00	5.00	25.00	15.00	20
21	HAWAII		8,384.67			86.00		66.50	52.10	21
22	PUERTO RICO						16.64		183.43	22
23	TOTALS - NON-CONTIGUOUS U.S.	5,529.00	10,006.67	5,461.00	2,660.00	338.00	22.04	94.70	265.83	23
24	TOTALS - UNITED STATES	560,286.85	288,616.62	135,147.13	222,220.49	27,934.13	6,434.80	31,078.64	10,523.92	24

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	ALABAMA POWER CO.	ALABAMA POWER CO.	ALABAMA POWER CO.	ALABAMA POWER CO.	ALABAMA POWER CO.	1
2	NAME OF PLANT	2	8ARRY	CHICKASAW	GAOSEN	GORGAS #2 & #3	GREENE	2
3	UTILITY-PLANT CODE	3	004500-0200	004500-0400	004500-0500	004500-0600	004500-0800	3
4	STATE	4	ALABAMA	ALABAMA	ALABAMA	ALABAMA	ALABAMA	4
5	COUNTY	5	MOBILE	MOBILE	ETOWAH	WALKER	GREENE	5
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	005 03	005 03	003 03	004 03	004 03	6
7	PLANT CAPACITY (MW)	7	1,770.80	138.00	138.00	757.00	568.00	7
8	ANNUAL GENERATION (MMWH) 3/	8	5,058,700	618,800	705,500	4,331,100	3,229,900	8
9	PLANT HEAT RATE (BTU/KWH) 4/	9	10,269	14,115	12,102	10,882	9,498	9
AIR QUALITY CONTROL DATA								
FUEL CONSUMPTION DATA (ANNUAL)								
10	COAL: CONSUMPTION (1,000 TONS)	10	2,321.50	121.60	255.80	2,030.80	1,280.30	10
11	AVERAGE HEAT CONTENT (BTU/LB)	11	12,008	12,047	11,905	11,515	11,941	11
12	AVERAGE SULFUR CONTENT (%)	12	2.61	2.13	1.18	1.43	1.88	12
13	AVERAGE ASH CONTENT (%)	13	11.87	15.04	11.50	14.71	14.76	13
14	AVERAGE MOISTURE CONTENT (%)	14	7.67	5.46	8.00	7.05	6.57	14
15	OIL: CONSUMPTION (1,000 BARRELS)	15	159.90	1.70	6.00	18.40	17.60	15
16	AVERAGE HEAT CONTENT (BTU/GAL)	16	136,000	136,000	137,000	136,161	136,161	16
17	AVERAGE SULFUR CONTENT (%)	17	.50	.50	.50	.80	.80	17
18	GAS: CONSUMPTION (1,000 MCF)	18	5,500.70	2,337.40	1,030			18
19	AVERAGE HEAT CONTENT (BTU/CU.FT.)	19	1,053	1,030				19
PLANT EQUIPMENT DATA								
20	BOILERS: - TOTAL NO.	20	5	3	2	7	2	20
21	- NO. OF WET BOTTOM	21	3			4	2	21
22	- NO. WITH FLY ASH REINJECTION	22						22
23	- NO. WITH MECHANICAL PRECIPITATORS	23	3	3		4		23
24	- NO. WITH ELECTROSTATIC PRECIPITATORS	24	2		2		2	24
25	- NO. WITH COMBINATION PRECIPITATORS 4/	25						25
26	- NO. WITH DESULFURIZATION SYSTEMS	26						26
27	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	27	15.00 18.00	15.00 22.00	20.00	15.00	18.00 20.00	27
28	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	28	84.00 85.00	85.00		84.00 87.00		28
29	TESTED, LOW - HIGH	29						29
30	ESTIMATED, LOW - HIGH	30	84.00 85.00	85.00		84.00 85.00		30
31	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	31	98.00 98.50		97.00		98.00	31
32	TESTED, LOW - HIGH	32						32
33	EST., LOW - HIGH	33	85.00 95.00		75.00 85.00		87.00 90.00	33
34	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	34						34
35	TESTED, LOW - HIGH	35						35
36	ESTIMATED, LOW - HIGH	36						36
PLANT OPERATING DATA AND COST OF EQUIPMENT								
37	EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	37	25.19	2.33	5.06	71.51	14.30	37
38	SULFUR DIOXIDE (1,000 TONS)	38	109.51	5.07	5.93	56.97	47.22	38
39	NITROGEN OXIDES (1,000 TONS)	39	28.53	2.17	2.77	28.24	19.24	39
40	STACKS: - TOTAL NO.	40	5	3	2	7	2	40
41	- HEIGHT (FEET), LOWEST - HIGHEST 6/	41	200.00 600.00	174.50	153.30	178.00 250.00	300.00	41
42	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 7/	42						42
43	TOTAL ASH: COLLECTED (1,000 TONS) 8/	43	233.70	16.10	28.20	225.80	186.00	43
44	SOLD (1,000 TONS) 9/	44	.50					44
45	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	45						45
46	EQUIVALENT OF ACIO COLLECTED (1,000 TONS) 10/	46						46
47	ELEMENTAL AND EQUIVALENT OF ACIO SOLD (1,000 TONS)	47						47
48	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	48	955.00	296.01		1,072.00		48
49	ELECTROSTATIC PRECIPITATORS (\$1,000)	49	3,566.00		567.60		1,071.00	49
50	COMBINATION PRECIPITATORS (\$1,000) 4/	50						50
51	DESULFURIZATION SYSTEMS (\$1,000)	51						51
52	STACKS (\$1,000)	52	2,389.00	11.00	11.00	181.00	296.00	52
53	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	53	279.00	30.00	71.00	219.00	133.00	53
54	REVENUES FROM SALE OF ASH (\$1,000)	54	1.00					54
55	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55						55
56	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	56						56
57	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	57	279.00	30.00	71.00	221.00	133.00	57
58	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	58	1.00					58
WATER QUALITY CONTROL DATA								
59	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	59	MOBILE RIVER	R MOBILE	R COOSA	R BLACK WARRIOR	R BLACK WARRIOR	59
60	AVERAGE RATE OF WITHDRAWAL (CFD)	60	1,145.00	245.00	207.00	750.00	480.00	60
61	AVERAGE RATE OF DISCHARGE (CFD)	61	1,145.00	245.00	207.00	750.00	480.00	61
62	AVERAGE RATE OF CONSUMPTION (CFD), CALCULATED - REPORTED 14/	62	9.85	2.11	1.78	6.45	4.13	62
63	PEAK LOAD MONTH: SUMMER - WINTER 15/	63	AUG DEC	AUG DEC	AUG DEC	AUG DEC	AUG DEC	63
64	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	64	88.00 62.00	88.00 71.00	87.00 56.00	67.00 62.00	90.00 61.00	64
65	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFD): SUMMER - WINTER	65	104.00 80.00	103.00 88.00	104.00 76.00	96.00 76.00	99.00 68.00	65
66	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OIS	66	20,100.00	20,100.00	7,391.00	1,214.00	2,641.00	66
67	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	67						67
68	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	68	.18	.20	.04	2.03		68
69	LIME (TONS), COOLING WATER - BOILER MAKEUP	69	.40	.67	.17	3.13		69
70	ALUM (TONS), COOLING WATER - BOILER MAKEUP	70						70
71	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	71	32.61			20.05		71
72	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	72	4.11			1.44	1.25	72
73	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 16/	73	YES	YES	YES	YES	YES	73
74	RECEIVING WATER BODY	74	ST/OT	ST	ST	ST	OT	74
75	POND DISCHARGE 17/	75	MOBILE	MOBILE	COOSA	BLACK WARRIOR	BLACK WARRIOR	75
76	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	76	9.00 7.00	9.00 7.00	9.00 6.00	9.00 7.00	9.00 6.00	76
77	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	77	3.00 50.00	3.00 25.00	3.00 25.00	3.00 5.00	3.00 5.00	77
78	- ASH SETTLING	78	200.00	560.00	8.40	260.00	2,000.00	78
79		79	220,000.00	2,500.00	5,000.00	100,000.00	60,000.00	79
COOLING FACILITY DATA								
80	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	80	5	3	2	6	2	80
81	ONCE THROUGH COOLING (SALINE)	81	1,770.81	138.00	138.00	756.90	568.48	81
82	COOLING POND(S)	82						82
83	COOLING TOWER(S)	83						83
84	COMBINATION 18/	84						84
85	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	85	1953 1971	1941 1951	1949	1929 1958	1965	85
86	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 19/	86	17.00 24.00	14.00	20.00	15.60 16.00	16.00	86
87	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFD)	87	1,731.70	326.60	243.00	1,196.50	612.00	87
88	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFD)	88	1,432.00	333.30	262.40	1,200.00	612.00	88
CAPITAL COSTS OF COOLING FACILITIES								
89	ONCE THROUGH COOLING SYSTEMS (\$1,000)	89	5,626.00	149.00	306.00	1,389.00	1,726.00	89
90	COOLING PONDS (\$1,000)	90						90
91	COOLING TOWERS (\$1,000)	91						91
ANNUAL COOLING WATER EXPENSES								
92	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	92	37.00	17.00	11.00	37.00	15.00	92
93	COST OF CHEMICAL ADDITIVES (\$1,000)	93						93
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES								
94	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	94	83.00	10.00	11.00	84.00	39.00	94
95	COST OF CHEMICAL ADDITIVES (\$1,000)	95	86.00	23.00	7.00	12.00	27.00	95

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	ALEXANDRIA ELEC. LIGHT & WATER	APPALACHIAN POWER CO	APPALACHIAN POWER CO	APPALACHIAN POWER CO	APPALACHIAN POWER CO
2	WORKS	2	WORKS	WORKS	WORKS	WORKS	WORKS
3	NAME OF PLANT	3	ALEXANDRIA # 2	CABIN CREEK	CLINCH RIVER	GLEN LYN	KANAWHA RIVER
4	UTILITY-PLANT CODE	4	007000-0200	014000-0300	014000-0500	014000-0600	014000-0700
5	STATE	5	LOUISIANA	WEST VIRGINIA	VIRGINIA	VIRGINIA	WEST VIRGINIA
6	COUNTY	6	RAPIDES	KANAWHA	RUSSELL	NILES	KANAWHA
7	AIR QUALITY CONTROL REGION NO. ^{1/} - WATER RESOURCE REGION NO. ^{2/}	7	106 11	234 05	207 06	226 05	234 05
8	PLANT CAPACITY (MW)	8	97.50	273.50	712.50	402.50	439.40
9	ANNUAL GENERATION (MMWH) ^{3/}	9	300,400	787,600	5,052,400	2,064,900	3,226,700
10	PLANT HEAT RATE (BTU/KWH) ^{4/}	10	12,768	11,695	9,085	9,942	9,187
11		11					
AIR QUALITY CONTROL DATA							
FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)	12	381.10	1,917.90	836.20	1,324.40	
13	AVERAGE HEAT CONTENT (BTU/LB)	13	12,279	11,994	11,972	11,020	
14	AVERAGE SULFUR CONTENT (%)	14	1.40	.71	.89	.89	
15	AVERAGE ASH CONTENT (%)	15	12.60	15.68	15.12	18.57	
16	AVERAGE MOISTURE CONTENT (%)	16	5.50	6.10	6.17	6.31	
17	OIL: CONSUMPTION (1,000 BARRELS)	17		7.10	92.40	2.60	
18	AVERAGE HEAT CONTENT (BTU/GAL)	18		136,493	134,500	140,000	
19	AVERAGE SULFUR CONTENT (%)	19		.20	.10	.20	
20	GAS: CONSUMPTION (1,000 MCF)	20	3,835.60				
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,000				
PLANT EQUIPMENT DATA							
22	BOILERS: - TOTAL NO.	22	3	9	3	10	2
23	- NO. OF WET BOTTOM	23					
24	- NO. WITH FLY ASH REINJECTION	24					
25	- NO. WITH MECHANICAL PRECIPITATORS	25		9	3	3	
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26					2
27	- NO. WITH COMBINATION PRECIPITATORS ^{4/}	27				1	
28	- NO. WITH DESULFURIZATION SYSTEMS	28					
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER ^{5/}	29	6.00 10.00	20.00	20.00	20.00	15.00
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30		15.00 85.00		85.00	
31	TESTED, LOW - HIGH	31					
32	ESTIMATED, LOW - HIGH	32				82.50	
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY ^{6/} : DESIGN, LOW - HIGH	33		97.00 97.60		95.00	98.50
34	TESTED, LOW - HIGH	34				77.60	95.10
35	EST., LOW - HIGH	35		97.00 97.60		77.60	95.00
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36					
37	TESTED, LOW - HIGH	37					
38	ESTIMATED, LOW - HIGH	38					
PLANT OPERATING DATA AND COST OF EQUIPMENT							
39	EST. TOTAL ANNUAL PLANT EMISSIONS ^{7/} : PARTICULATE MATTER (1,000 TONS)	39		1.10	38.63	22.35	10.45
40	SULFUR DIOXIDE (1,000 TONS)	40		10.46	26.69	14.59	23.10
41	NITROGEN OXIDES (1,000 TONS)	41	.75	3.43	17.28	7.73	11.93
42	STACKS: - TOTAL NO.	42	3	3	2	5	1
43	- HEIGHT (FEET), LOWEST - HIGHEST ^{8/}	43	63.50 93.00	250.00 262.00	450.00	435.00	325.00
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) ^{9/}	44					
45	TOTAL ASH: COLLECTED (1,000 TONS) ^{10/}	45		55.20	318.50	116.10	232.10
46	SOLO (1,000 TONS) ^{11/}	46			11.40	6.80	30.10
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47					
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) ^{12/}	48					
49	EQUIVALENT AND EQUIVALENT OF ACID SOLO (1,000 TONS)	49					
50	MECHANICAL PRECIPITATORS (\$1,000)	50			183.00		
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51					2,966.00
52	COMBINATION PRECIPITATORS (\$1,000) ^{4/}	52					
53	DESULFURIZATION SYSTEMS (\$1,000)	53					
54	STACKS (\$1,000)	54					
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55		148.20	461.00	100.20	519.00
56	REVENUES FROM SALE OF ASH (\$1,000)	56			261.60		166.70
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57			11.00		87.00
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58					
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) ^{13/}	59		263.20	265.60	107.20	178.70
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60			11.00		87.00
WATER QUALITY CONTROL DATA							
61	COOLING WATER: SOURCE CODES R, L, B, D, W, M, A, C, E, F, IN FOOTNOTES	61	W	C CABIN	R CLINCH	R NEW	R KANAWHA
62	AVERAGE RATE OF WITHDRAWAL (CFD)	62	.54	300.00	11.10	577.00	640.00
63	AVERAGE RATE OF DISCHARGE (CFD)	63	.01	300.00	1.60	577.00	640.00
64	AVERAGE RATE OF CONSUMPTION (CFD), CALCULATED - REPORTED ^{14/}	64	.54	2.58	9.50	4.96	5.50
65	PEAK LOAD MONTH: AUG DEC	65	AUG DEC	AUG DEC	AUG DEC	AUG DEC	AUG DEC
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	90.00 86.00	82.00 51.00	79.00 56.00	81.00 51.00	77.50 45.20
67	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFD): SUMMER - WINTER	67	105.00 100.00	90.00 59.00	85.00 78.00	95.00 65.00	91.00 58.00
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFD): SUMMER - WINTER	68		12,580.00	695.00	5,120.00	6,614.00
69		69		12,580.00	695.00	3,488.00	14.24
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, M	70					
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71		.05	.20	.35	.20
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72		3.80	.20	.10	.20
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73				9.06	
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74			2.75		
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	1.25	.90	73.00	.10	15.00
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76	YES	YES	YES	.23	.90
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT ^{15/}	77	PS/SW	ST	OT	OT	ST
78	POND DISCHARGE: RECEIVING WATER BODY	78		C CABIN	R NEW	R KANAWHA	
79	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79		7.40	12.50	9.00	6.80
80	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	80		90.00		5.60	23.00
81		81					
82		82		86,000.00		99,000.00	35.00
COOLING FACILITY DATA							
83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	83	7	273.50		4	403.10
84	ONCE THROUGH COOLING (SALINE)	84				2	426.00
85	COOLING POND(S)	85					
86	COOLING TOWER(S)	86	3	97.50	3	712.50	
87	COMBINATION ^{16/}	87					
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1956 1963	1943	1958 1961	1924 1957	1953
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST ^{17/}	89	18.00 20.00	8.30	18.80	12.80	13.60
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFD)	90	186.00	405.60	660.00	527.70	606.00
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFD)	91		778.00		774.00	625.00
CAPITAL COSTS OF COOLING FACILITIES							
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92					
93	COOLING PONDS (\$1,000)	93					
94	COOLING TOWERS (\$1,000)	94	286.00		985.00		
ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	9.00	9.80	23.60	11.40	16.20
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	4.50		27.60	2.10	1.30
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	16.00	2.80	7.50	3.70	11.30
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	1.90	2.20	.90	2.20	2.70

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

NAME OF UTILITY	1	2	3	4	5	6	7	8	9	10	11
NAME OF PLANT	1	2	3	4	5	6	7	8	9	10	11
UTILITY-PLANT CODE	1	2	3	4	5	6	7	8	9	10	11
STATE	1	2	3	4	5	6	7	8	9	10	11
COUNTY	1	2	3	4	5	6	7	8	9	10	11
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	1	2	3	4	5	6	7	8	9	10	11
PLANT CAPACITY (MW)	1	2	3	4	5	6	7	8	9	10	11
ANNUAL GENERATION (MWH) 3/	1	2	3	4	5	6	7	8	9	10	11
PLANT HEAT RATE (BTU/KWH) 3/	1	2	3	4	5	6	7	8	9	10	11
AIR QUALITY CONTROL DATA											
FUEL CONSUMPTION DATA (ANNUAL)											
COAL: CONSUMPTION (1,000 TONS)	12	13	14	15	16	17	18	19	20	21	22
AVERAGE HEAT CONTENT (BTU/LB)	12	13	14	15	16	17	18	19	20	21	22
AVERAGE SULFUR CONTENT (%)	12	13	14	15	16	17	18	19	20	21	22
AVERAGE ASH CONTENT (%)	12	13	14	15	16	17	18	19	20	21	22
AVERAGE MOISTURE CONTENT (%)	12	13	14	15	16	17	18	19	20	21	22
OIL: CONSUMPTION (1,000 BARRELS)	12	13	14	15	16	17	18	19	20	21	22
AVERAGE HEAT CONTENT (BTU/GAL)	12	13	14	15	16	17	18	19	20	21	22
AVERAGE SULFUR CONTENT (%)	12	13	14	15	16	17	18	19	20	21	22
GAS: CONSUMPTION (1,000 MCF)	12	13	14	15	16	17	18	19	20	21	22
AVERAGE HEAT CONTENT (BTU/CU.FT.)	12	13	14	15	16	17	18	19	20	21	22
PLANT EQUIPMENT DATA											
BOILERS: - TOTAL NO.	23	24	25	26	27	28	29	30	31	32	33
- NO. OF WET BOTTOM	23	24	25	26	27	28	29	30	31	32	33
- NO. WITH FLY ASH REINJECTION	23	24	25	26	27	28	29	30	31	32	33
- NO. WITH MECHANICAL PRECIPITATORS	23	24	25	26	27	28	29	30	31	32	33
- NO. WITH ELECTROSTATIC PRECIPITATORS	23	24	25	26	27	28	29	30	31	32	33
- NO. WITH COMBINATION PRECIPITATORS 4/	23	24	25	26	27	28	29	30	31	32	33
- NO. WITH DESULFURIZATION SYSTEMS	23	24	25	26	27	28	29	30	31	32	33
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	23	24	25	26	27	28	29	30	31	32	33
MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	23	24	25	26	27	28	29	30	31	32	33
TESTED, LOW - HIGH	23	24	25	26	27	28	29	30	31	32	33
ESTIMATED, LOW - HIGH	23	24	25	26	27	28	29	30	31	32	33
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/	23	24	25	26	27	28	29	30	31	32	33
DESIGN, LOW - HIGH	23	24	25	26	27	28	29	30	31	32	33
TESTED, LOW - HIGH	23	24	25	26	27	28	29	30	31	32	33
EST., LOW - HIGH	23	24	25	26	27	28	29	30	31	32	33
DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	23	24	25	26	27	28	29	30	31	32	33
TESTED, LOW - HIGH	23	24	25	26	27	28	29	30	31	32	33
ESTIMATED, LOW - HIGH	23	24	25	26	27	28	29	30	31	32	33
PLANT OPERATING DATA AND COST OF EQUIPMENT											
EST. TOTAL ANNUAL PLANT EMISSIONS 7/	34	35	36	37	38	39	40	41	42	43	44
PARTICULATE MATTER (1,000 TONS)	34	35	36	37	38	39	40	41	42	43	44
SULFUR DIOXIDE (1,000 TONS)	34	35	36	37	38	39	40	41	42	43	44
NITROGEN OXIDES (1,000 TONS)	34	35	36	37	38	39	40	41	42	43	44
STACKS: - TOTAL NO.	45	46	47	48	49	50	51	52	53	54	55
- HEIGHT (FEET), LOWEST - HIGHEST 8/	45	46	47	48	49	50	51	52	53	54	55
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	45	46	47	48	49	50	51	52	53	54	55
TOTAL ASH: COLLECTED (1,000 TONS) 10/	45	46	47	48	49	50	51	52	53	54	55
SOLO (1,000 TONS) 11/	45	46	47	48	49	50	51	52	53	54	55
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	45	46	47	48	49	50	51	52	53	54	55
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	45	46	47	48	49	50	51	52	53	54	55
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	45	46	47	48	49	50	51	52	53	54	55
INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	45	46	47	48	49	50	51	52	53	54	55
ELECTROSTATIC PRECIPITATORS (\$1,000)	45	46	47	48	49	50	51	52	53	54	55
COMBINATION PRECIPITATORS (\$1,000) 4/	45	46	47	48	49	50	51	52	53	54	55
DESULFURIZATION SYSTEMS (\$1,000)	45	46	47	48	49	50	51	52	53	54	55
STACKS (\$1,000)	45	46	47	48	49	50	51	52	53	54	55
ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	45	46	47	48	49	50	51	52	53	54	55
REVENUES FROM SALE OF ASH (\$1,000)	45	46	47	48	49	50	51	52	53	54	55
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	45	46	47	48	49	50	51	52	53	54	55
REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	45	46	47	48	49	50	51	52	53	54	55
TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	45	46	47	48	49	50	51	52	53	54	55
TOTAL BYPRODUCT SALES REVENUES (\$1,000)	45	46	47	48	49	50	51	52	53	54	55
WATER QUALITY CONTROL DATA											
COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	56	57	58	59	60	61	62	63	64	65	66
AVERAGE RATE OF WITHDRAWAL (CFS)	56	57	58	59	60	61	62	63	64	65	66
AVERAGE RATE OF DISCHARGE (CFS)	56	57	58	59	60	61	62	63	64	65	66
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	56	57	58	59	60	61	62	63	64	65	66
PEAK LOAD MONTH: AUG. OEC	56	57	58	59	60	61	62	63	64	65	66
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	56	57	58	59	60	61	62	63	64	65	66
AT OUTFALL, SUMMER - WINTER	56	57	58	59	60	61	62	63	64	65	66
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	56	57	58	59	60	61	62	63	64	65	66
- WINTER	56	57	58	59	60	61	62	63	64	65	66
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O 15/	56	57	58	59	60	61	62	63	64	65	66
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	56	57	58	59	60	61	62	63	64	65	66
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	56	57	58	59	60	61	62	63	64	65	66
LIME (TONS), COOLING WATER - BOILER MAKEUP	56	57	58	59	60	61	62	63	64	65	66
ALUM (TONS), COOLING WATER - BOILER MAKEUP	56	57	58	59	60	61	62	63	64	65	66
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	56	57	58	59	60	61	62	63	64	65	66
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	56	57	58	59	60	61	62	63	64	65	66
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 16/	56	57	58	59	60	61	62	63	64	65	66
RECEIVING WATER BODY	56	57	58	59	60	61	62	63	64	65	66
POND DISCHARGE 17/	56	57	58	59	60	61	62	63	64	65	66
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	56	57	58	59	60	61	62	63	64	65	66
VOLUME (1,000 CU.FT./YR.), BOILER BLOWDOWN - ASH SETTLING	56	57	58	59	60	61	62	63	64	65	66
COOLING FACILITY DATA											
NO. OF UNITS AND CAPACITY (TWH) USING 18/	67	68	69	70	71	72	73	74	75	76	77
ONCE THROUGH COOLING (FRESH)	67	68	69	70	71	72	73	74	75	76	77
ONCE THROUGH COOLING (SALINE)	67	68	69	70	71	72	73	74	75	76	77
COOLING POND(S)	67	68	69	70	71	72	73	74	75	76	77
COOLING TOWER(S)	67	68	69	70	71	72	73	74	75	76	77
COMBINATIONS 19/	67	68	69	70	71	72	73	74	75	76	77
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	67	68	69	70	71	72	73	74	75	76	77
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 20/	67	68	69	70	71	72	73	74	75	76	77
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	67	68	69	70	71	72	73	74	75	76	77
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	67	68	69	70	71	72	73	74	75	76	77
CAPITAL COSTS OF COOLING FACILITIES											
ONCE THROUGH COOLING SYSTEMS (\$1,000)	78	79	80	81	82	83	84	85	86	87	88
COOLING PONDS (\$1,000)	78	79	80	81	82	83	84	85	86	87	88
COOLING TOWERS (\$1,000)	78	79	80	81	82	83	84	85	86	87	88
ANNUAL COOLING WATER EXPENSES											
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	89	90	91	92	93	94	95	96	97	98	99
COST OF CHEMICAL ADDITIVES (\$1,000)	89	90	91	92	93	94	95	96	97	98	99
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES											
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	90	91	92	93	94	95	96	97	98	99	100
COST OF CHEMICAL ADDITIVES (\$1,000)	90	91	92	93	94	95	96	97	98	99	100

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	ARIZONA PUBLIC SERVICE CO.	ARIZONA PUBLIC SERVICE CO.	ARKANSAS ELECTRIC COOP CORP.	ARKANSAS ELECTRIC COOP CORP.	ARKANSAS POWER & LIGHT CO.
2		2					
3		3					
4	NAME OF PLANT	4	SAGUARO	YUCCA	FITZHUGH	BAILEY	LYNCH
5	UTILITY-PLANT CODE	5	01700-0700	017000-0900	017500-0100	017500-0200	018500-0200
6	STATE	6	ARIZONA	ARIZONA	ARKANSAS	ARKANSAS	ARKANSAS
7	COUNTY	7	PINAL	YUMA	FRANKLIN	WOODRUFF	PULASKI
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	8	015 15	013 15	021 11	020 11	016 11
9	PLANT CAPACITY (MM)	9	250.00	75.00	59.84	120.00	259.75
10	ANNUAL GENERATION (MMH) 3/	10	576,900	176,400	227,600	519,300	555,000
11	PLANT HEAT RATE (BTU/KWH) 3/	11	11,523	12,191	10,956	10,200	12,932
AIR QUALITY CONTROL DATA							
FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)	12					
13	AVERAGE HEAT CONTENT (BTU/LB)	13					
14	AVERAGE SULFUR CONTENT (%)	14					
15	AVERAGE ASH CONTENT (%)	15					
16	AVERAGE MOISTURE CONTENT (%)	16					
17	OIL: CONSUMPTION (1,000 BARRELS)	17	21.50		39.80	88.80	332.80
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	152,656		156,005	151,734	149,556
19	AVERAGE SULFUR CONTENT (%)	19	.37		2.30	2.30	.80
20	GAS: CONSUMPTION (1,000 MCF)	20	6,193.00	2,056.60	2,318.79	4,775.31	5,078.44
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,078	1,056	1,022	1,024	1,022
PLANT EQUIPMENT DATA							
22	BOILERS: - TOTAL NO.	22	2	1	1	1	3
23	- NO. OF WET BOTTOM	23					
24	- NO. WITH FLY ASH REINJECTION	24					
25	- NO. WITH MECHANICAL PRECIPITATORS	25					
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26					
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27					
28	- NO. WITH DESULFURIZATION SYSTEMS	28					
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29		7.00	7.00	8.00	7.00
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30					
31	TESTED, LOW - HIGH	31					
32	ESTIMATED, LOW - HIGH	32					
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	33					
34	TESTED, LOW - HIGH	34					
35	EST., LOW - HIGH	35					
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36					
37	TESTED, LOW - HIGH	37					
38	ESTIMATED, LOW - HIGH	38					
PLANT OPERATING DATA AND COST OF EQUIPMENT							
39	EST. TOTAL ANNUAL PLANT EMISSIONS 7/	39					
40	PARTICULATE MATTER (1,000 TONS)	40	.03		.01	.01	.06
41	SULFUR DIOXIDE (1,000 TONS)	41	1.26	.40	.31	.69	1.72
42	NITROGEN OXIDES (1,000 TONS)	42	1	1	.54	1.13	3
43	STACKS: - TOTAL NO.	43	1	1	1	1	3
44	- HEIGHT (FEET), LOWEST - HIGHEST 8/	44	160.00	146.50	179.00	167.00	147.00
45	COMBUSTION CYCLE ADJUSTIVES (1,000 TONS) 9/	45					
46	TOTAL ASH: COLLECTED (1,000 TONS) 10/	46					
47	SOLO (1,000 TONS) 11/	47					
48	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	48					
49	EQUIVALENT OF ACIO COLLECTED (1,000 TONS) 12/	49					
50	ELEMENTAL AND EQUIVALENT OF ACIO SOLO (1,000 TONS)	50					
51	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	51					
52	ELECTROSTATIC PRECIPITATORS (\$1,000)	52					
53	COMBINATION PRECIPITATORS (\$1,000) 4/	53					
54	DESULFURIZATION SYSTEMS (\$1,000)	54	106.40		29.00	29.00	72.30
55	STACKS (\$1,000)	55					
56	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	56					
57	REVENUES FROM SALE OF ASH (\$1,000)	57					
58	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	58					
59	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	59					
60	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	60					
61	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	61					
WATER QUALITY CONTROL DATA							
62	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	62	W	W	R ARKANSAS	R WHITE	W
63	AVERAGE RATE OF WITHDRAWAL (CFS)	63	1.64	.96	55.00	93.00	2.59
64	AVERAGE RATE OF DISCHARGE (CFS)	64			55.00	93.00	.47
65	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	65	1.64	.96			2.12
66	PEAK LOAD MONTH: SUMMER - WINTER 15/	66			JUL .47 JAN .80	JUL .80 JAN .50	
67	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	67			91.00 59.00	76.00 50.00	
68	AT OUTFALL, SUMMER - WINTER	68			104.00 76.00	94.00 67.00	
69	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	69			29,600.00 19,500.00	17,200.00 15,300.00	
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, DB/	70					
71	CHEMICAL ADJUSTIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71	4.33	.14	.02	.20	.71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	28.89			.04	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73				.01	
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74					432.68
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	7.69	3.15			18.43
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76	YES	YES	YES	YES	YES
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT/	77	ST	ST	ST	ST	ST
78	IN RECEIVING WATER BODY	78					
79	POND DISCHARGE 16/	79					
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80					
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	81					
82	BOILER BLOWDOWN - ASH SETTLING	82					
COOLING FACILITY DATA							
83	NO. OF UNITS AND CAPACITY (MM) USED 17/	83			1 59.84	1 120.00	
84	ONCE THROUGH COOLING (FRESH)	84					
85	ONCE THROUGH COOLING (SALINE)	85					
86	COOLING PONDS (S)	86	2 200.00	1 75.00			3 259.00
87	COMBINATIONS 18/	87					
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1954 1955	1959	1962	1966	1947 1954
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 19/	89	22.60	20.00	14.00	20.70	16.30 18.00
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	312.00	86.00	91.35	116.00	367.00
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91			91.40	116.00	
CAPITAL COSTS OF COOLING FACILITIES							
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92			630.00	897.00	
93	COOLING PONDS (\$1,000)	93					
94	COOLING TOWERS (\$1,000)	94	414.90	676.00			773.70
ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	18.00				44.40
96	COST OF CHEMICAL ADJUSTIVES (\$1,000)	96	10.20	4.50			37.00
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	25.50		2.00	2.00	7.00
98	COST OF CHEMICAL ADJUSTIVES (\$1,000)	98	4.31	1.50	5.00	5.00	5.80

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10. INDIVIDUAL PLANT DATA, 1971

NAME OF UTILITY	1	ARKANSAS POWER & LIGHT CO.	2	ARKANSAS POWER & LIGHT CO.	3	ARKANSAS POWER & LIGHT CO.	4	ARKANSAS POWER & LIGHT CO.	5	ASSOCIATED ELECTRIC COOP. INC.	6
NAME OF PLANT	4	MOSES	5	COUCH	6	LAKE CATHERINE	7	RITCHIE	8	HILL	9
UTILITY-PLANT CODE	5	018500-0300	6	018500-0400	7	018500-0500	8	018500-0600	9	021000-0100	10
STATE	6	ARKANSAS	7	ARKANSAS	8	ARKANSAS	9	ARKANSAS	10	MISSOURI	11
COUNTY	7	ST. FRANCIS	8	LAFAYETTE	9	HOT SPRINGS	10	PHILLIPS	11	RANDOLPH	12
AIR QUALITY CONTROL REGION NO. 1 - WATER RESOURCE REGION NO. 2	8	020	08	022	11	016	08	020	08	137	10
PLANT CAPACITY (MW)	10	323,000	11	187,500	12	757,000	13	903,640	14	470,000	15
ANNUAL GENERATION (MMWH) 1/2	10	323,000	11	511,800	12	3,432,400	13	4,288,000	14	2,667,200	15
PLANT HEAT RATE (BTU/KWH) 1/2	11	12,932	12	12,015	13	10,458	14	9,893	15	9,860	16
AIR QUALITY CONTROL DATA											
FUEL CONSUMPTION DATA (ANNUAL)											
COAL: CONSUMPTION (1,000 TONS)	12									1,308.10	12
AVERAGE HEAT CONTENT (BTU/LB)	13									10,052	13
AVERAGE SULFUR CONTENT (%)	14									4.25	14
AVERAGE ASH CONTENT (%)	15									12.69	15
AVERAGE MOISTURE CONTENT (%)	16									16.40	16
OIL: CONSUMPTION (1,000 BARRELS)	17	507.90		75.60		537.40		1,078.00			17
AVERAGE HEAT CONTENT (BTU/GAL)	18	150,375		150,000		150,000		152,324			18
AVERAGE SULFUR CONTENT (%)	19	.80		.80		.80		.80			19
GAS: CONSUMPTION (1,000 MCF)	20	1,072.16		7,004.61		31,225.34		35,045.91			20
AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,000		989		1,017		1,023			21
PLANT EQUIPMENT DATA											
BOILERS: - TOTAL NO.	22	2		2		4		2		2	22
- NO. OF WET BOTTOM	23										23
- NO. WITH FLY ASH REINJECTION	24										24
- NO. WITH MECHANICAL PRECIPITATORS	25										25
- NO. WITH ELECTROSTATIC PRECIPITATORS	26										26
- NO. WITH COMBINATION PRECIPITATORS 1/2	27									2	27
- NO. WITH DESULFURIZATION SYSTEMS	28										28
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 1/2	29	7.00		7.00		7.00	10.00	7.00	10.00	18.00	29
MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30										30
TESTED, LOW - HIGH	31										31
ESTIMATED, LOW - HIGH	32										32
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 1/2: DESIGN, LOW - HIGH	33									93.30	33
TESTED, LOW - HIGH	34									95.30	34
EST., LOW - HIGH	35									87.00	35
DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36										36
TESTED, LOW - HIGH	37										37
ESTIMATED, LOW - HIGH	38										38
PLANT OPERATING DATA AND COST OF EQUIPMENT											
EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	39	.09		.01		.09		.18		1.59	39
SULFUR DIOXIDE (1,000 TONS)	40									108.96	40
NITROGEN OXIDES (1,000 TONS)	41	1.33		1.53		7.27		9.21		35.97	41
STACKS: - TOTAL NO.	42	4		3		3		3		2	42
- HEIGHT (FEET), LOWEST - HIGHEST 1/2	43										43
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 1/2	44									400.00	44
TOTAL ASH: COLLECTED (1,000 TONS) 1/2	45									163.00	45
SOLO (1,000 TONS) 1/2	46										46
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47										47
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 1/2	48										48
ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	49										49
INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50										50
ELECTROSTATIC PRECIPITATORS (\$1,000)	51									702.00	51
COMBINATION PRECIPITATORS (\$1,000) 1/2	52										52
DESULFURIZATION SYSTEMS (\$1,000)	53										53
STACKS (\$1,000)	54										54
ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	24.80		59.20		172.70		463.40		749.00	55
REVENUES FROM SALE OF ASH (\$1,000)	56									130.40	56
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57										57
REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58										58
TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 1/2	59									130.40	59
TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60										60
WATER QUALITY CONTROL DATA											
COOLING WATER: SOURCE (CODES R, L, B, C, W, M & D EXPL. IN FOOTNOTES)	61	RW L'ANGUILLE	W	L CATHERINE	R MISSISSIPPI	R CHARITON M FK					61
AVERAGE RATE OF WITHDRAWAL (CFS)	62	2.56		1,005.10		593.00				535.00	62
AVERAGE RATE OF DISCHARGE (CFS)	63	1.64		1,005.10		593.00				526.00	63
AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 1/2	64	1.92		2.06		5.10				9.00	64
PEAK LOAD MONTH:	65	JUL	DEC	JUL	DEC	JUL	DEC	AUG	JAN		65
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66			78.00	64.00	85.00	49.00	86.00	50.00		66
AT OUTFALL, SUMMER - WINTER	67	119.00	101.00	92.00	79.00	105.00	74.00	97.00	61.00		67
AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	68			1,145.20						535.00	68
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O 1/2	69			1,069.40						535.00	69
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70										70
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71	.56		.35		.30		.13		.20	71
LIME (TONS), COOLING WATER - BOILER MAKEUP	72					14.60		120.52		31.83	72
ALUM (TONS), COOLING WATER - BOILER MAKEUP	73	42.73								2.45	73
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74	156.30								2.80	74
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75	YES		YES		YES		YES		.15	75
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 1/2	76	ST	YES	ST	YES	ST	YES	OT	YES		76
RECEIVING WATER BODY	77										77
POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	78									6.90	78
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79										79
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	80										80
	81										81
	82									2,680.00	82
COOLING FACILITY DATA											
NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	83			4	757.00	2	904.00				83
ONCE THROUGH COOLING (SALINE)	84										84
COOLING PONDS (S)	85										85
COOLING TOWERS (S)	86	2	138.00	2	187.00					470.00	86
COMBINATIONS 1/2	87										87
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88		1951	1943	1954	1949	1970	1961	1967	1966	88
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 1/2	89		18.00	15.00	18.00	12.50	18.40	25.00	30.00	16.85	89
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90		218.00		260.00		1,093.00		685.00	534.80	90
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91						1,093.00		685.00		91
CAPITAL COSTS OF COOLING FACILITIES											
ONCE THROUGH COOLING SYSTEMS (\$1,000)	92					1,583.40		5,749.70			92
COOLING PONDS (\$1,000)	93										93
COOLING TOWERS (\$1,000)	94		464.50		589.00					2,245.00	94
ANNUAL COOLING WATER EXPENSES											
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95		42.20		5.00	3.30		1.17		60.00	95
COST OF CHEMICAL ADDITIVES (\$1,000)	96		23.00		8.40	6.40		4.50		1.00	96
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES											
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97		6.60		4.90	5.30		26.73		30.00	97
COST OF CHEMICAL ADDITIVES (\$1,000)	98		1.40		.30	8.40		30.25		10.00	98

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	ATLANTIC CITY ELECTRIC CO.	ATLANTIC CITY ELECTRIC CO.	BALTIMORE GAS & ELECTRIC CO.	BALTIMORE GAS & ELECTRIC CO.	BALTIMORE GAS & ELECTRIC CO.
2		2					
3		3					
4	NAME OF PLANT	4	ENGLAND	MISSOURI AVENUE	CRANE	GOULD STREET	WAGNER
5	UTILITY-PLANT CODE	5	022000-0100	022000-0300	026500-0100	026500-0200	026500-0300
6	STATE	6	NEW JERSEY	NEW JERSEY	MARYLAND	MARYLAND	MARYLAND
7	COUNTY	7	CAPE MAY	ATLANTIC	BALTIMORE	BALTIMORE CITY	ANNE ARUNDEL
8	AIR QUALITY CONTROL REGION NO. ^{1/} - WATER RESOURCE REGION NO. ^{2/}	8	150 02	150 02	115 02	115 02	115 02
9	PLANT CAPACITY (MW)	9	299.20	50.00	399.80	173.50	627.80
10	ANNUAL GENERATION (MWH) ^{3/}	10	1,823,600	289,700	2,667,100	694,300	3,854,307
11	PLANT HEAT RATE (BTU/KWH) ^{3/}	11	9,699	12,538	9,750	12,351	9,771
AIR QUALITY CONTROL DATA							
FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)	12	663.68	128.92	483.88	101.04	1,444.31
13	AVERAGE HEAT CONTENT (BTU/LB)	13	13,124	13,653	13,521	12,124	12,734
14	AVERAGE SULFUR CONTENT (%)	14	2.58	.51	2.54	1.79	1.84
15	AVERAGE ASH CONTENT (%)	15	10.06	5.79	7.39	15.03	11.29
16	AVERAGE MOISTURE CONTENT (%)	16	3.49	5.67	3.60	6.53	5.03
17	OIL: CONSUMPTION (1,000 BARRELS)	17	224.23		2,108.86	994.93	143.24
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	138,275		145,860	145,397	145,684
19	AVERAGE SULFUR CONTENT (%)	19	.57		.91	.93	.85
20	GAS: CONSUMPTION (1,000 MCF)	20				48.30	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21				1,019	
PLANT EQUIPMENT DATA							
22	BOILERS: - TOTAL NO.	22	2	2	2	3	3
23	- NO. OF WET BOTTOM	23	2		2		
24	- NO. WITH FLY ASH REINJECTION	24	2		2		
25	- NO. WITH MECHANICAL PRECIPITATORS	25				1	
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26	2	2	2		1
27	- NO. WITH COMBINATION PRECIPITATORS ^{4/}	27					2
28	- NO. WITH DESULFURIZATION SYSTEMS	28					
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER ^{5/}	29	16.00	26.00 28.00	15.00	20.00 25.00	19.00 23.00
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30				80.00	30
31	TESTED, LOW - HIGH	31				74.20	31
32	ESTIMATED, LOW - HIGH	32				60.00	32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	33	97.10 98.00	95.00	95.00	95.00	95.00
34	TESTED, LOW - HIGH	34	95.37 95.46	81.40 87.80	55.10 80.00	97.50	99.00
35	EST., LOW - HIGH	35	99.50 94.00	81.00 87.00	70.00	83.00	98.00
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36					
37	TESTED, LOW - HIGH	37					
38	ESTIMATED, LOW - HIGH	38					
PLANT OPERATING DATA AND COST OF EQUIPMENT							
39	EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	39	.46	1.00	1.31	3.65	4.04
40	SULFUR DIOXIDE (1,000 TONS)	40	33.99	1.29	30.53	6.65	52.50
41	NITROGEN OXIDES (1,000 TONS)	41	18.75	1.16	17.96	3.11	13.31
42	STACKS: - TOTAL NO.	42	2	2	2	3	3
43	- HEIGHT (FEET), LOWEST - HIGHEST ^{6/}	43	250.50	216.00	353.00	238.00	286.80 345.50
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) ^{7/}	44	.04				
45	TOTAL ASH: COLLECTED (1,000 TONS) ^{8/}	45	65.89	7.47	22.70	12.00	194.40
46	SOLO (1,000 TONS) ^{9/}	46	28.07		22.70		10.40
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47					
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) ^{10/}	48					
49	ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	49					
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50				588.00	
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51	744.70	156.60	3,330.00	516.00	983.00
52	COMBINATION PRECIPITATORS (\$1,000) ^{4/}	52					2,603.00
53	DESULFURIZATION SYSTEMS (\$1,000)	53					
54	STACKS (\$1,000)	54	291.60	56.00	4,513.00	225.00	1,031.00
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55		12.45	18.50	96.70	314.20
56	REVENUES FROM SALE OF ASH (\$1,000)	56	11.59		15.90		7.50
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57					
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58					
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) ^{11/}	59		12.45	18.50	96.70	314.20
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60	11.59		15.90		7.50
WATER QUALITY CONTROL DATA							
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	H GREAT EGG	O BEACH THRFARE	C SENECA	R PATAPSCO	R PATAPSCO
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	342.00	117.00	636.00	237.00	765.00
63	AVERAGE RATE OF DISCHARGE (CFS)	63	342.00	117.00	636.00	237.00	765.00
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED ^{12/}	64	2.94	1.01	5.47	2.04	6.56
65	PEAK LOAD MONTH: AUG. JAN. AUG. JAN. JUL. JAN. JUL. JAN. JUL. JAN. JUL. JAN.	65	73.00 48.00	71.00 41.00	84.00 41.00	83.00 46.00	82.00 51.00
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	78.00 78.00	80.00 52.00	97.00 54.00	96.00 64.00	100.00 67.00
67	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	67					
68	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OIL	68					
69	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	69					
70	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	70					
71	LIME (TONS), COOLING WATER - BOILER MAKEUP	71					
72	ALUM (TONS), COOLING WATER - BOILER MAKEUP	72					
73	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	73					
74	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	74	118.00	12.00		64.00	28.00
75	SEWAGE DISPOSAL: METHUEN PS, ST, SW, OT ^{13/}	75	YES	YES	YES	YES	YES
76	POND DISCHARGE ^{14/} RECEIVING WATER BODY	76					
77	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	77	9.80 8.00	7.90 7.90	6.80	6.80	6.80
78	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	78	1,200.00	22.50	52.00	2,092.00	62.00
79		79	40,000.00	21,442.81	23,200.00	62,700.00	13,300.00
COOLING FACILITY DATA							
83	NO. OF UNITS AND CAPACITY (TWD) USING: ONCE THROUGH COOLING (FRESH)	83					
84	ONCE THROUGH COOLING (SALINE)	84	2	2	2	3	3
85	COOLING POND(S)	85					
86	COOLING TOWER(S)	86					
87	COMBINATIONS ^{15/}	87					
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1962 1963	1941 1946	1961 1962	1927 1952	1956 1966
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST ^{16/}	89	432.00	142.00	11.30	15.00	15.00
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	432.00	142.00	694.00	330.00	834.00
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	432.00	142.00	694.00	330.00	834.00
CAPITAL COSTS OF COOLING FACILITIES							
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	1,732.70	488.10	3,364.00	927.00	4,775.00
93	COOLING PONDS (\$1,000)	93					
94	COOLING TOWERS (\$1,000)	94					
ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95		22.00	40.70	59.20	46.40
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	13.60	1.30		6.20	17.80
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	85.79	75.12	13.80	7.50	7.00
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	9.28	2.90	3.20	1.20	6.60

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

NAME OF UTILITY	1	BALTIMORE GAS & ELECTRIC CO.	BALTIMORE GAS & ELECTRIC CO.	8ASIN ELECTRIC POWER COOP	BEECH BOTTOM POWER CO.	BIG RIVERS RURAL ELECTRIC COOP	1
NAME OF PLANT	2	RIVERSIDE	WESTPORT	LELANO OLOS	WINOSOR	COLEMAN	2
UTILITY-PLANT CODE	3	026500-0500	026500-0600	031000-0100	035500-0100	041000-0050	3
STATE	4	MARYLAND	MARYLAND	NORTH DAKOTA	WEST VIRGINIA	KENTUCKY	4
COUNTY	5	BALTIMORE	BALTIMORE CITY	MERCER	BROOKE	HANCOCK	5
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	115	02	172	10	077	6
PLANT CAPACITY (MW)	7	333.50	194.00	216.00	300.00	340.00	7
ANNUAL GENERATION (MMH) 3/	8	1,480,900	758,600	1,453,600	636,400	2,199,100	8
PLANT HEAT RATE (BTU/KWH) 2/	9	11,831	13,854	11,480	18,168	9,754	9
10	11						11
11	12						12
12	13						13
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94	95						95
95	96						96
96	97						97
97	98						98
98	99						99
99	100						100

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	BIG RIVERS RURAL	BLACKSTONE VALLEY	BOSTON EDISON	BOSTON EDISON	BOSTON EDISON
2		2	ELECTRIC COOP	ELECTRIC CO.	CO.	CO.	CO.
3		3					
4	NAME OF PLANT	4	REIO	PANTUCKET	EOGAR	L STREET	MYSTIC
5	UTILITY-PLANT CODE	5	041000-0100	043000-0200	048500-0100	048500-0200	048500-0300
6	STATE	6	KENTUCKY	RHODE ISLAND	MASSACHUSETTS	MASSACHUSETTS	MASSACHUSETTS
7	COUNTY	7	HENDERSON	PROVIDENCE	NORFOLK	SUFFOLK	MIDDLESEX
8	AIR QUALITY CONTROL REGION NO. ^{1/} - WATER RESOURCE REGION NO. ^{2/}	8	077 05	120 01	119 01	119 01	119 01
9	PLANT CAPACITY (MW)	9	80.00	33.50	264.00	115.00	618.00
10	ANNUAL GENERATION (MWH) ^{3/}	10	518,800	19,000	1,348,600	260,600	2,470,800
11	PLANT HEAT RATE (BTU/KWH) ^{4/}	11	11,285	34,889	11,766	21,208	11,110
AIR QUALITY CONTROL DATA							
FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)	12	267.70				
13	AVERAGE HEAT CONTENT (BTU/LB)	13	10,999				
14	AVERAGE SULFUR CONTENT (%)	14	4.35				
15	AVERAGE ASH CONTENT (%)	15	13.37				
16	AVERAGE MOISTURE CONTENT (%)	16	9.55				
17	OIL: CONSUMPTION (1,000 BARRELS)	17	.99	87.89	2,571.00	887.00	4,461.00
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	138,000	148,013	147,110	148,218	145,712
19	AVERAGE SULFUR CONTENT (%)	19	.10	1.87	1.70	.73	.78
20	GAS: CONSUMPTION (1,000 MCF)	20		97.48			
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21		1,046			
PLANT EQUIPMENT DATA							
22	BOILERS: - TOTAL NO.	22	1	13	11	9	6
23	- NO. OF WET BOTTOM	23					
24	- NO. WITH FLY ASH REINJECTION	24					
25	- NO. WITH MECHANICAL PRECIPITATORS	25	1				
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26			7	9	6
27	- NO. WITH COMBINATION PRECIPITATORS ^{5/}	27					
28	- NO. WITH DESULFURIZATION SYSTEMS	28					
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER ^{6/}	29	22.00	20.00 25.00	20.00	24.00	20.00 29.00
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30	85.00				
31	TESTED, LOW - HIGH	31					
32	ESTIMATED, LOW - HIGH	32	70.00				
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY ^{5/} : DESIGN, LOW - HIGH	33			90.00 95.00	80.00 90.00	95.00
34	TESTED, LOW - HIGH	34					
35	EST., LOW - HIGH	35					
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36					
37	TESTED, LOW - HIGH	37					
38	ESTIMATED, LOW - HIGH	38					
PLANT OPERATING DATA AND COST OF EQUIPMENT							
39	EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	39	9.13	.01	.04	.02	.04
40	SULFUR DIOXIDE (1,000 TONS)	40	22.82	.55	14.65	2.17	11.68
41	NITROGEN OXIDES (1,000 TONS)	41	2.41	.21	5.67	1.96	9.84
42	STACKS: - TOTAL NO.	42	1	2	5	3	5
43	- HEIGHT (FEET), LOWEST - HIGHEST ^{7/}	43	250.00	238.00	250.00	266.00	260.00 335.00
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) ^{8/}	44			.08		.06
45	TOTAL ASH: COLLECTED (1,000 TONS) ^{9/}	45	27.24		.35	.02	.28
46	SOLD (1,000 TONS) ^{10/}	46			.02		.10
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47					
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) ^{11/}	48					
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49					
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50	25.00				
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51			768.40	585.80	1,595.00
52	COMBINATION PRECIPITATORS (\$1,000) ^{4/}	52					
53	DESULFURIZATION SYSTEMS (\$1,000)	53					
54	STACKS (\$1,000)	54	125.00	25.80	192.09	67.51	971.56
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	24.10		8.10	.50	4.40
56	REVENUES FROM SALE OF ASH (\$1,000)	56			1.20		5.80
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57					
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58					
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) ^{12/}	59	24.10		127.30	54.00	62.60
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60			1.20		5.80
WATER QUALITY CONTROL DATA							
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & D EXPL. IN FOOTNOTES)	61	R GREEN	R PANTUCKET	R WEYMOUTH FORE	H BOSTON	R MYSTIC
62	AVERAGE RATE OF WITHDRAWAL (ICFS)	62	149.20	80.10	310.00		561.20
63	AVERAGE RATE OF DISCHARGE (ICFS)	63	149.20	95.60	310.00		561.20
64	AVE. RATE OF CONSUMPTION (ICFS), CALCULATED - REPORTED ^{13/}	64	1.28	.69	2.67		
65	SEP OEC	65	SEP OEC	SEP OEC	JUL OEC	JUL OEC	JUL OEC
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	79.00 52.00	81.00 44.00	68.00 47.00	75.00 42.00	75.00 46.00
67	AT OUTFALL, SUMMER - WINTER	67	92.00 67.00	101.00 64.00	92.00 61.00	91.00 58.00	92.00 63.00
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (ICFS): SUMMER - WINTER	68	10,580.00	95.60	TOTAL	TOTAL	TOTAL
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O ^{14/}	69	10,580.00	95.60	TOTAL	TOTAL	TOTAL
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70		.15		3.07	1.54
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71		4.50	1.54		114.02
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	72		5.08	200.29	138.97	
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	73		10.00			
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74		7.00			
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75	1.00	.75	71.11	.34	3.37
76	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT ^{15/}	76	ST	YES	PS	YES	PS
77	RECEIVING WATER BODY	77					
78	POND DISCHARGE ^{16/}	78					
79	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79	9.50				
80	VOLUME 11,000 CUFT/YR, BOILER BLOWDOWN - ASH SETTLING	80					
81	BOILER BLOWDOWN - ASH SETTLING	81					
82	BOILER BLOWDOWN - ASH SETTLING	82					
COOLING FACILITY DATA							
83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	83	1	80.00			
84	ONCE THROUGH COOLING (ISALINE)	84			3	33.50	9
85	COOLING POND(S)	85					404.61
86	COOLING TOWER(S)	86					5
87	COMBINATIONS ^{17/}	87					155.00
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1965	1913	1925 1954	1919	1921
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST ^{18/}	89	16.00	20.00	9.60 14.60	22.80	19.10
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (ICFS)	90	172.00	95.00	889.00	200.40	802.30
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (ICFS)	91	172.00	95.00	750.00	178.00	705.00
CAPITAL COSTS OF COOLING FACILITIES							
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	1,073.25	71.00	3,299.53		2,172.05
93	COOLING PONDS (\$1,000)	93					
94	COOLING TOWERS (\$1,000)	94					109.24
ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	6.00	14.10	46.90	2.00	83.90
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	1.10		19.38	.50	6.40
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	6.00	14.00	94.60	93.20	99.00
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	.50	3.60	40.80	32.90	28.50

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10. INDIVIDUAL PLANT DATA, 1971

NAME OF UTILITY	1	BOSTON EDISON CO.	2	BRAZOS ELECTRIC POWER COOP INC.	3	BRAZOS ELECTRIC POWER COOP INC.	4	BURBANK PUBLIC SERVICE DEPT	5	CAMBRIDGE ELEC. LIGHT CO.	6
NAME OF PLANT	7	NEW BOSTON	8	NORTH TEXAS	9	MILLER	10	BURBANK	11	KENDALL SQUARE	12
UTILITY-PLANT CODE	13	048500-0400	14	052000-0100	15	052000-0200	16	059000-0100	17	065000-0200	18
STATE	19	MASSACHUSETTS	20	TEXAS	21	TEXAS	22	CALIFORNIA	23	MASSACHUSETTS	24
COUNTY	25	SUFFOLK	26	PARKER	27	PALO PINTO	28	LOS ANGELES	29	MIDDLESEX	30
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	31	119 01	32	215 12	33	215 12	34	024 18	35	119 01	36
PLANT CAPACITY (MW)	37	760.00	38	75.00	39	75.00	40	187.00	41	67.45	42
ANNUAL GENERATION (MWH) 3/	43	4,554,100	44	337,800	45	615,000	46	602,400	47	330,400	48
PLANT HEAT RATE (BTU/KWH) 4/	49	9,297	50	17,322	51	10,705	52	11,923	53	12,545	54
AIR QUALITY CONTROL DATA											
FUEL CONSUMPTION DATA (ANNUAL)											
COAL: CONSUMPTION (1,000 TONS)	55		56		57		58		59		60
AVERAGE HEAT CONTENT (BTU/LB)	61		62		63		64		65		66
AVERAGE SULFUR CONTENT (%)	67		68		69		70		71		72
AVERAGE ASH CONTENT (%)	73		74		75		76		77		78
AVERAGE MOISTURE CONTENT (%)	79		80		81		82		83		84
OIL: CONSUMPTION (1,000 BARRELS)	85	6,806.00	86	3.61	87		88	601.50	89	647.00	90
AVERAGE HEAT CONTENT (BTU/GAL)	91	148,057	92	144,500	93		94	149,103	95	147,662	96
AVERAGE SULFUR CONTENT (%)	97	.74	98	.70	99		100	.27	101	.68	102
GAS: CONSUMPTION (1,000 MCF)	103		104	3,718.38	105	6,206.80	106	3,258.90	107	1,517.00	108
AVERAGE HEAT CONTENT (BTU/CU.FT.)	109		110	1,119	111	1,061	112	1,048	113	1,000	114
PLANT EQUIPMENT DATA											
BOILERS: - TOTAL NO.	115	2	116	3	117	1	118	7	119	3	120
- NO. OF WET BOTTOM	121		122		123		124		125		126
- NO. WITH FLY ASH REINJECTION	127		128		129		130		131		132
- NO. WITH MECHANICAL PRECIPITATORS	133		134		135		136	6	137		138
- NO. WITH ELECTROSTATIC PRECIPITATORS	139		140		141		142		143	3	144
- NO. WITH COMBINATION PRECIPITATORS 4/	145		146		147		148		149		150
- NO. WITH DESULFURIZATION SYSTEMS	151		152		153		154		155		156
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	157	13.00	158		159	8.00	160	12.60	161	15.00	162
MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	163		164		165		166		167		168
TESTED, LOW - HIGH	169		170		171		172		173		174
ESTIMATED, LOW - HIGH	175		176		177		178	23.00	179	40.00	180
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	181		182		183		184		185		186
TESTED, LOW - HIGH	187		188		189		190		191		192
EST., LOW - HIGH	193		194		195		196		197		198
DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	199		200		201		202		203		204
TESTED, LOW - HIGH	205		206		207		208		209		210
ESTIMATED, LOW - HIGH	211		212		213		214		215		216
PLANT OPERATING DATA AND COST OF EQUIPMENT											
EST. TOTAL ANNUAL PLANT EMISSIONS: 6/	217		218		219		220		221		222
PARTICULATE MATTER (1,000 TONS)	223	1.14	224		225	.09	226	.11	227		228
SULFUR DIOXIDE (1,000 TONS)	229	16.90	230		231	.54	232	1.48	233		234
NITROGEN OXIDES (1,000 TONS)	235	15.01	236	.74	237	1.96	238	1.72	239		240
STACKS: - TOTAL NO.	241		242	3	243	1	244	2	245		246
- HEIGHT (FEET), LOWEST - HIGHEST 7/	247		248		249		250		251		252
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 8/	253	250.00	254	68.00	255	66.00	256	66.00	257	175.00	258
TOTAL ASH: COLLECTED (1,000 TONS) 9/	259	1.20	260	79.50	261		262		263	.04	264
SOLO (1,000 TONS) 10/	265	.20	266		267		268		269	.05	270
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	271		272		273		274		275	.05	276
EQUIVALENT OF ACIO COLLECTED (1,000 TONS) 11/	277		278		279		280		281		282
ELEMENTAL AND EQUIVALENT OF ACIO SOLO (1,000 TONS)	283		284		285		286		287		288
INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	289		290		291		292	81.00	293		294
ELECTROSTATIC PRECIPITATORS (\$1,000)	295		296		297		298		299		300
COMBINATION PRECIPITATORS (\$1,000) 12/	301		302		303		304		305		306
DESULFURIZATION SYSTEMS (\$1,000)	307		308		309		310		311		312
STACKS (\$1,000)	313	256.40	314	31.90	315	18.00	316	114.00	317	44.00	318
ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	319		320		321		322		323	1.60	324
REVENUES FROM SALE OF ASH (\$1,000)	325		326		327		328		329		330
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	331		332		333		334		335		336
REVENUES FROM SALE OF SULFUR PRODUCT (\$1,000)	337		338		339		340		341		342
TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	343	262.80	344		345		346		347	1.60	348
TOTAL BYPRODUCT SALES REVENUES (\$1,000)	349		350		351		352		353	1.60	354
WATER QUALITY CONTROL DATA											
COOLING WATER: SOURCE (CODES R, L, B, C, W, H & D EXPL. IN FOOTNOTES)	355	H BOSTON	356	L WEATHERFORD	357	L PALO PINTO	358	M CHARLES	359		360
AVERAGE RATE OF WITHDRAWAL (CFS)	361	643.40	362	74.22	363	125.10	364	2.90	365	110.00	366
AVERAGE RATE OF DISCHARGE (CFS)	367	643.40	368	74.22	369	125.10	370	1.20	371	110.00	372
Ave. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	373	5.53	374	.64	375	1.08	376	.95	377		378
PEAK LOAD MONTH: 15/	379	JUL	380	JUL	381	JAN	382	AUG	383	JUL	384
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	385	75.00	386	87.80	387	92.00	388	78.00	389	70.00	390
AT OUTFALL, SUMMER - WINTER	391	91.00	392	103.00	393	112.00	394	80.00	395	72.00	396
Ave. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	397		398		399		400		401		402
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, 16/	403		404		405		406		407		408
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	409		410		411		412		413		414
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	415	132.87	416	.08	417	.19	418	.08	419	.50	420
LIME (TONS), COOLING WATER - BOILER MAKEUP	421		422	6.40	423	5.33	424	55.30	425	50.00	426
ALUM (TONS), COOLING WATER - BOILER MAKEUP	427		428	2.45	429	7.85	430		431	2.25	432
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	433	1.92	434		435	.33	436	36.00	437	1.30	438
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	439	YES	440	YES	441	YES	442	YES	443	YES	444
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 17/	445	PS	446	ST	447	ST	448	PS	449	PS	450
RECEIVING WATER BODY	451		452		453		454		455		456
POND DISCHARGE: 18/	457		458	9.60	459	9.80	460		461		462
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	463		464		465		466		467		468
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	469		470	216.00	471	287.31	472		473		474
COOLING FACILITY DATA											
NO. OF UNITS AND CAPACITY (MW) USING: 19/	475	2	476	3	477	1	478	3	479		480
ONCE THROUGH COOLING (FRESH)	481	760.00	482	75.00	483	75.00	484		485	75.00	486
COOLING PONDS (S)	487		488		489		490		491		492
COOLING TOWER(S)	493		494		495		496	6	497	169.00	498
COMBINATIONS 20/	499		500		501		502		503		504
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	505	1965	506	1958	507	1968	508	1949	509	1964	510
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 21/	511	15.80	512	15.00	513	15.50	514	16.00	515	15.00	516
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	517	757.50	518	142.40	519	133.70	520	299.30	521	121.00	522
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	523	1,348.00	524	133.00	525	133.70	526		527	110.00	528
CAPITAL COSTS OF COOLING FACILITIES											
ONCE THROUGH COOLING SYSTEMS (\$1,000)	529	1,476.90	530	399.60	531	586.00	532		533	100.00	534
COOLING PONDS (\$1,000)	535		536		537		538		539		540
COOLING TOWERS (\$1,000)	541		542		543		544		545		546
ANNUAL COOLING WATER EXPENSES											
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	547	42.00	548	1.10	549	1.00	550	26.61	551	12.00	552
COST OF CHEMICAL ADDITIVES (\$1,000)	553	3.00	554		555		556	31.10	557	.50	558
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES											
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	559	47.20	560	11.20	561	18.00	562	7.47	563	95.00	564
COST OF CHEMICAL ADDITIVES (\$1,000)	565	30.60	566	2.68	567	4.20	568	4.25	569	10.50	570

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	CAROLINA OPERATING CO.	CAROLINA POWER & LIGHT CO.	CAROLINA POWER & LIGHT CO.	CAROLINA POWER & LIGHT CO.	CAROLINA POWER & LIGHT CO.	1			
2	NAME OF PLANT	2	CARDINAL	ASHEVILLE	CAPE FEAR	ROBINSON	LEE	2			
3	UTILITY-PLANT CODE	3	07000-0100	07200-0100	07200-0300	07200-0400	07200-0500	3			
4	STATE	4	OHIO	NORTH CAROLINA	NORTH CAROLINA	SOUTH CAROLINA	NORTH CAROLINA	4			
5	COUNTY	5	JEFFERSON	BUNCOMBE	CHATHAM	DARLINGTON	WAYNE	5			
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	181 05	171 06	166 03	201 03	170 03	6			
7	PLANT CAPACITY (MW)	7	1,230.50	413.65	420.97	206.63	402.45	7			
8	ANNUAL GENERATION (MWH) 3/	8	6,227,200	2,106,600	2,012,100	1,032,400	2,293,300	8			
9	PLANT HEAT RATE (BTU/KWH) 2/	9	9,185	9,618	10,007	9,836	10,034	9			
AIR QUALITY CONTROL DATA											
FUEL CONSUMPTION DATA (ANNUAL)											
12	COAL: CONSUMPTION (1,000 TONS)	12	2,584.50	854.17	815.55	312.69	854.85	12			
13	AVERAGE HEAT CONTENT (BTU/LB)	13	10,892	11,820	12,185	12,550	12,753	13			
14	AVERAGE SULFUR CONTENT (%)	14	2.94	1.36	1.40	1.02	1.00	14			
15	AVERAGE ASH CONTENT (%)	15	17.57	12.03	10.30	10.76	8.60	15			
16	AVERAGE MOISTURE CONTENT (%)	16	6.62	7.09	5.50	5.76	5.80	16			
17	DIL: CONSUMPTION (1,000 BARRELS)	17	101.50	12.07	6.97	36.11	11.27	17			
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	134,500	137,500	137,500	137,500	137,500	18			
19	AVERAGE SULFUR CONTENT (%)	19	.10	.08	.08	.08	.08	19			
20	GAS: CONSUMPTION (1,000 MCF)	20				2,031.04	1,095.34	20			
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21				1,033	1,040	21			
PLANT EQUIPMENT DATA											
22	BOILERS: - TOTAL NO.	22	2	2	10	1	3	22			
23	- NO. OF MET BOTTOM	23						23			
24	- NO. WITH FLY ASH REINJECTION	24						24			
25	- NO. WITH MECHANICAL PRECIPITATORS	25			4	1	3	25			
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26	2	1				26			
27	- NO. WITH COMBINATION PRECIPITATORS 2/	27		1				27			
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28			
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 2/	29	20.00	18.00	20.00	20.00	20.00	29			
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30				85.00	85.00	30			
31	TESTED, LOW - HIGH	31						31			
32	ESTIMATED, LOW - HIGH	32			70.00	80.00	80.00	32			
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 2/ DESIGN, LOW - HIGH	33	95.00	95.00	99.00			33			
34	TESTED, LOW - HIGH	34			99.73			34			
35	EST., LOW - HIGH	35	94.00					35			
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36						36			
37	TESTED, LOW - HIGH	37						37			
38	ESTIMATED, LOW - HIGH	38						38			
PLANT OPERATING DATA AND COST OF EQUIPMENT											
39	EST. TOTAL ANNUAL PLANT EMISSIONS 3/ PARTICULATE MATTER (1,000 TONS)	39	23.16	2.67	14.88	5.72	12.50	39			
40	SULFUR DIOXIDE (1,000 TONS)	40	148.93	22.77	22.38	6.26	16.76	40			
41	NITROGEN OXIDES (1,000 TONS)	41	23.48	7.71	7.36	3.29	7.93	41			
42	STACKS: - TOTAL NO.	42	2	2	4	1	2	42			
43	- HEIGHT (FEET), LOWEST - HIGHEST 2/	43	825.00	392.00	148.00	275.00	250.00	43			
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 2/	44						44			
45	TOTAL ASH: COLLECTED (1,000 TONS) 2/	45	439.30	101.30	70.00	28.10	61.80	45			
46	SOLO (1,000 TONS) 2/	46	1.90					46			
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47			
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 2/	48						48			
49	ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	49						49			
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50			200.80	89.60	222.80	50			
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51	2,702.00	525.00				51			
52	COMBINATION PRECIPITATORS (\$1,000) 2/	52		508.00				52			
53	DESULFURIZATION SYSTEMS (\$1,000)	53						53			
54	STACKS (\$1,000)	54	3,142.00	505.20	168.10	105.60	200.60	54			
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	169.20	200.00	114.00	42.00	88.00	55			
56	REVENUES FROM SALE OF ASH (\$1,000)	56						56			
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						57			
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						58			
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 2/	59	212.20	200.00	114.00	42.00	88.00	59			
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60						60			
WATER QUALITY CONTROL DATA											
61	COOLING WATER: SOURCE (ONES 4, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82)	61	R OHIO	R FRENCH BROAD	R CAPE FEAR	C BLACK	R NEUSE	61			
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	1,782.00	2.30	400.00	126.20	598.00	62			
63	AVERAGE RATE OF DISCHARGE (CFS)	63	1,782.00		400.00	126.20	598.00	63			
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 2/	64	15.33					64			
65	PEAK LOAD MONTH: SUMMER - WINTER 2/	65	AUG	DEC	JUL	DEC	JUL	DEC	65		
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT OVERSIGHT, SUMMER - WINTER	66	82.40	44.80	75.00	40.00	87.00	61.00	66		
67	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	67	94.90	57.20	94.00	60.00	87.00	63.00	67		
68	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OIL	68	72,500.00	3,815.00	3,040.00	309.00	1,642.00	68			
69	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	69						69			
70	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	70						70			
71	LIME (TONS), COOLING WATER - BOILER MAKEUP	71	25.00			2.25	2.76	3.92	71		
72	ALUM (TONS), COOLING WATER - BOILER MAKEUP	72				91.10		.08	72		
73	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	73							73		
74	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	74	87.50	1.50	2.25			30.00	74		
75	SEWAGE DISPOSAL: METHOD (P, S, ST, SW, OT) 2/	75	YES	YES	YES	YES	YES	2.30	75		
76	RECEIVING WATER BODY	76	OT	PS	ST			YES	76		
77	POND DISCHARGE 2/	77	R OHIO	R CAPE FEAR	L ROBINSON	R NEUSE			77		
78	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	78	8.00	8.00	8.40	7.00	9.70	78			
79	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	79	5.00	10.00	75.00	40.00	50.00	79			
80		80							80		
81		81							81		
82		82		60,000.00	40,000.00	20,000.00	30,000.00	82			
COOLING FACILITY DATA											
83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	83	2	1,180.00	4	92.60		83			
84	ONCE THROUGH COOLING (SALINE)	84						84			
85	COOLING POND(S)	85		2	392.68		1	206.64	85		
86	COOLING TOWER(S)	86							86		
87	COMBINATIONS 2/	87							87		
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88		1967	1963	1923	1958	1960	1951	402.45	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 2/	89		12.60	17.00	13.00	21.00	22.40	17.00	23.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90		1,617.40	456.00		598.00	180.00		612.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91		1,782.00						612.00	91
CAPITAL COSTS OF COOLING FACILITIES											
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92		2,307.00		1,985.50		1,976.40		92	
93	COOLING PONDS (\$1,000)	93			2,732.00		4,800.00	1,308.00		93	
94	COOLING TOWERS (\$1,000)	94				65.00		36.50		94	
ANNUAL COOLING WATER EXPENSES											
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95		2.10	56.56	73.00	4.00	105.00		95	
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96		7.30	4.08			3.00		96	
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES											
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97		5.20	20.22	15.50	5.00	15.00		97	
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98		6.70	1.72	5.00	1.00	16.00		98	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	2	CAROLINA POWER & LIGHT CO.	3	CAROLINA POWER & LIGHT CO.	4	CAROLINA POWER & LIGHT CO.	5	CENTRAL HUOSON GAS & ELECTRIC CO.	6	CENTRAL ILLINOIS P.S. CO.	7	
3	NAME OF PLANT	4	ROXBORO	5	SUTTON	6	WEATHERSPOON	7	OANSKAMMER	8	COFFEEEN	9	
4	UTILITY-PLANT CODE	5	072000-0900	6	072000-1000	7	072000-1300	8	077000-0100	9	078500-0100	10	
5	STATE	6	NORTH CAROLINA	7	NORTH CAROLINA	8	NORTH CAROLINA	9	NEW YORK	10	ILLINOIS	11	
6	COUNTY	7	PERSON	8	NEW HANOVER	9	ROBESON	10	ORANGE	11	MONTGOMERY	12	
7	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	8	166 03	9	170 03	10	169 03	11	161 02	12	075 07	13	
8	PLANT CAPACITY (MW)	9	1,067.85	10	225.00	11	165.50	12	531.91	13	388.96	14	
9	ANNUAL GENERATION (MWH) 3/	10	6,611,200	11	1,212,400	12	866,800	13	2,985,000	14	1,811,900	15	
10	PLANT HEAT RATE (BTU/KWH) 4/	11	9,437	12	10,740	13	11,169	14	10,113	15	10,377	16	
11		12		13		14		15		16		17	
12		13		14		15		16		17		18	
13		14		15		16		17		18		19	
14		15		16		17		18		19		20	
15		16		17		18		19		20		21	
16		17		18		19		20		21		22	
17		18		19		20		21		22		23	
18		19		20		21		22		23		24	
19		20		21		22		23		24		25	
20		21		22		23		24		25		26	
21		22		23		24		25		26		27	
22		23		24		25		26		27		28	
23		24		25		26		27		28		29	
24		25		26		27		28		29		30	
25		26		27		28		29		30		31	
26		27		28		29		30		31		32	
27		28		29		30		31		32		33	
28		29		30		31		32		33		34	
29		30		31		32		33		34		35	
30		31		32		33		34		35		36	
31		32		33		34		35		36		37	
32		33		34		35		36		37		38	
33		34		35		36		37		38		39	
34		35		36		37		38		39		40	
35		36		37		38		39		40		41	
36		37		38		39		40		41		42	
37		38		39		40		41		42		43	
38		39		40		41		42		43		44	
39		40		41		42		43		44		45	
40		41		42		43		44		45		46	
41		42		43		44		45		46		47	
42		43		44		45		46		47		48	
43		44		45		46		47		48		49	
44		45		46		47		48		49		50	
45		46		47		48		49		50		51	
46		47		48		49		50		51		52	
47		48		49		50		51		52		53	
48		49		50		51		52		53		54	
49		50		51		52		53		54		55	
50		51		52		53		54		55		56	
51		52		53		54		55		56		57	
52		53		54		55		56		57		58	
53		54		55		56		57		58		59	
54		55		56		57		58		59		60	
55		56		57		58		59		60		61	
56		57		58		59		60		61		62	
57		58		59		60		61		62		63	
58		59		60		61		62		63		64	
59		60		61		62		63		64		65	
60		61		62		63		64		65		66	
61		62		63		64		65		66		67	
62		63		64		65		66		67		68	
63		64		65		66		67		68		69	
64		65		66		67		68		69		70	
65		66		67		68		69		70		71	
66		67		68		69		70		71		72	
67		68		69		70		71		72		73	
68		69		70		71		72		73		74	
69		70		71		72		73		74		75	
70		71		72		73		74		75		76	
71		72		73		74		75		76		77	
72		73		74		75		76		77		78	
73		74		75		76		77		78		79	
74		75		76		77		78		79		80	
75		76		77		78		79		80		81	
76		77		78		79		80		81		82	
77		78		79		80		81		82		83	
78		79		80		81		82		83		84	
79		80		81		82		83		84		85	
80		81		82		83		84		85		86	
81		82		83		84		85		86		87	
82		83		84		85		86		87		88	
83		84		85		86		87		88		89	
84		85		86		87		88		89		90	
85		86		87		88		89		90		91	
86		87		88		89		90		91		92	
87		88		89		90		91		92		93	
88		89		90		91		92		93		94	
89		90		91		92		93		94		95	
90		91		92		93		94		95		96	
91		92		93		94		95		96		97	
92		93		94		95		96		97		98	
93		94		95		96		97		98		99	
94		95		96		97		98		99		100	
95		96		97		98		99		100		101	
96		97		98		99		100		101		102	
97		98		99		100		101		102		103	
98		99		100		101		102		103		104	
99		100		101		102		103		104		105	
100		101		102		103		104		105		106	
101		102		103		104		105		106		107	
102		103		104		105		106		107		108	
103		104		105		106		107		108		109	
104		105		106		107		108		109		110	
105		106		107		108		109		110		111	
106		107		108		109		110		111		112	
107		108		109		110		111		112		113	
108		109		110		111		112		113		114	
109		110		111		112		113		114		115	
110		111		112		113		114		115		116	
111		112		113		114		115		116		117	
112		113		114		115		116		117		118	
113		114		115		116		117		118		119	
114		115		116		117		118		119		120	
115		116		117		118		119		120		121	
116		117		118		119		120		121		122	
117		118		119		120		121		122		123	
118		119		120		121		122		123		124	
119		120		121		122		123		124		125	
120		121		122		123		124		125		126	
121		122		123		124		125		126		127	
122		123		124		125		126		127		128	
123		124		125		126		127		128		129	
124		125		126		127		128		129		130	
125		126		127		128		129		130		131	
126		127		128		129		130		131		132	
127		128		129		130		131		132		133	
128		129		130		131		132		133		134	
129		130		131		132		133		134		135	
130		131		132		133		134		135		136	
131		132		133		134		135		136		137	
132		133		134		135		136		137		138	
133		134		135		136		137		138		139	
134		135		136		137		138		139		140	
135		136		137		138		139		140		141	
136		137		138		139		140		141		142	
137		138		139		140		141		142		143	
138		139		140		141		142		143		144	
139		140		141		142		143		144		145	
140		141		142		143		144		145		146	
141		142		143		144		145		146		147	

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	CENTRAL ILLINOIS P. S. CO.	CENTRAL ILLINOIS P. S. CO.	CENTRAL ILLINOIS P. S. CO.	CENTRAL ILLINOIS LIGHT CO.	CENTRAL ILLINOIS LIGHT CO.	CENTRAL ILLINOIS LIGHT CO.	1	
2		2							2	
3	NAME OF PLANT	3	GRAND TOWER	HUTSONVILLE	HEREODSIA	EDWARDS	KEYSTONE	KEYSTONE	3	
4	UTILITY-PLANT CODE	4	078500-0200	078500-0300	078500-0400	079000-0100	079000-0200	079000-0200	4	
5	STATE	5	ILLINOIS	ILLINOIS	ILLINOIS	ILLINOIS	ILLINOIS	ILLINOIS	5	
6	COUNTY	6	JACKSON	CRAWFORD	MORGAN	PEORIA	PEORIA	PEORIA	6	
7	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	7	074 07	074 05	075 07	065 07	065 07	065 07	7	
8	PLANT CAPACITY (MW)	8	232.64	212.50	354.36	386.02	386.02	47.50	8	
9	ANNUAL GENERATION (MWH) 3/	9	1,036,300	884,800	1,738,300	2,352,700	2,352,700	118,400	9	
10	PLANT HEAT RATE (BTU/KWH) 3/	10	10,633	11,025	10,132	9,555	9,555	14,201	10	
11		11							11	
AIR QUALITY CONTROL DATA										
FUEL CONSUMPTION DATA (ANNUAL)										
12	COAL: CONSUMPTION (1,000 TONS)	12	509.20	432.80	804.90	1,075.83	1,075.83	42.23	12	
13	AVERAGE HEAT CONTENT (BTU/LB)	13	10,833	11,214	10,880	10,432	10,432	11,059	13	
14	AVERAGE SULFUR CONTENT (%)	14	2.38	2.30	3.54	2.83	2.83	2.86	14	
15	AVERAGE ASH CONTENT (%)	15	16.34	11.19	9.60	10.60	10.60	7.82	15	
16	AVERAGE MOISTURE CONTENT (%)	16	10.67	13.14	16.11	17.47	17.47	16.09	16	
17	OIL: CONSUMPTION (1,000 BARRELS)	17	2.60	6.00	12.70	2.56	2.56	1.8	17	
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	137,805	137,919	137,978	137,600	137,600	137,600	18	
19	AVERAGE SULFUR CONTENT (%)	19	.43	.26	.41	.10	.10	.10	19	
20	GAS: CONSUMPTION (1,000 MCF)	20						179.42	20	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21						1,000	21	
PLANT EQUIPMENT DATA										
22	BOILERS: - TOTAL NO.	22	9	6	5	2	2	4	22	
23	- NO. OF WET BOTTOM	23							23	
24	- NO. WITH FLY ASH REINJECTION	24							24	
25	- NO. WITH MECHANICAL PRECIPITATORS	25						4	25	
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26	3		1	2			26	
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27							27	
28	- NO. WITH DESULFURIZATION SYSTEMS	28							28	
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	25.00 30.00	22.00 25.00	25.00	20.00	20.00	25.00	29	
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30						60.00	30	
31	TESTED, LOW - HIGH	31							31	
32	ESTIMATED, LOW - HIGH	32						80.00	32	
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/ DESIGN, LOW - HIGH	33	97.70 97.10	99.20	97.00	97.00	99.00	91.90 94.60	33	
34	TESTED, LOW - HIGH	34			96.90	98.00	98.00	99.00	34	
35	EST., LOW - HIGH	35							35	
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36							36	
37	TESTED, LOW - HIGH	37							37	
38	ESTIMATED, LOW - HIGH	38							38	
PLANT OPERATING DATA AND COST OF EQUIPMENT										
39	EST. TOTAL ANNUAL PLANT EMISSIONS 3R PARTICULATE MATTER (1,000 TONS)	39	2.03	7.50	19.04	.98	.98	.43	39	
40	SULFUR DIOXIDE (1,000 TONS)	40	23.76	11.80	55.86	59.67	59.67	2.37	40	
41	NITROGEN OXIDES (1,000 TONS)	41	4.58	2.37	7.27	16.14	16.14	.35	41	
42	STACKS: - TOTAL NO.	42	5	4	5	1	1	4	42	
43	- HEIGHT (FEET), LOWEST - HIGHEST 7/	43	155.00 301.00	197.00	201.70 300.00	503.00	503.00	91.00	43	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 8/	44							44	
45	TOTAL ASH: COLLECTED (1,000 TONS) 9/	45	79.80	20.60	51.00	82.00	82.00	2.96	45	
46	SOLD (1,000 TONS) 10/	46							46	
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47							47	
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 11/	48							48	
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49							49	
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50							50	
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51	2,239.00		687.00	754.18	754.18		51	
52	COMBINATION PRECIPITATORS (\$1,000) 4/	52							52	
53	DESULFURIZATION SYSTEMS (\$1,000)	53							53	
54	STACKS (\$1,000)	54	89.00	89.10	110.00	721.52	721.52	24.00	54	
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	60.80	67.90	38.00	111.00	111.00	22.83	55	
56	REVENUES FROM SALE OF ASH (\$1,000)	56							56	
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57							57	
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58							58	
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 12/	59	60.80	67.90	38.00	111.00	111.00	22.83	59	
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60							60	
WATER QUALITY CONTROL DATA										
61	COOLING WATER: SOURCE (CFS) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82	61	MISSISSIPPI	R WABASH	R ILLINOIS	R ILLINOIS	R ILLINOIS	R ILLINOIS	61	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	336.00	212.00	280.00	344.00	344.00	90.00	62	
63	AVERAGE RATE OF DISCHARGE (CFS)	63	336.00	212.00	280.00	344.00	344.00	90.00	63	
64	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 13/	64	2.89	1.82	2.41	2.96	2.96	.77	64	
65	PEAK LOAD MONTH: JUL OEC	65	JUL OEC	JUL OEC	JUL OEC	JUL OEC	JUL OEC	JUN FEB	65	
66	HAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	86.00 44.00	89.00 55.00	88.00 44.00	82.00 46.00	81.00 46.00	81.00 35.00	66	
67	AT OUTFALL, SUMMER - WINTER	67	102.00 74.00	101.00 77.00	102.00 74.00	99.00 69.00	93.00 53.00	93.00 53.00	67	
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	68	146,000.00 93,500.00	16,000.00 11,900.00	14,626.00 16,779.00	10,606.00 11,543.00	10,606.00 11,543.00	10,434.00 11,543.00	68	
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, 10/	69							69	
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70							70	
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71	.35	.85	.80	37.50	37.50	1.43	71	
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	72	23.00	.04	34.20	20.00	20.00	72.02	72	
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	73	9.00	12.95	38.85	.13	.13	.92	73	
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74	26.75	.45	26.00	24.50	24.50	8.00	74	
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75	YES YES	YES YES	YES YES	YES YES	YES YES	YES YES	75	
76	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 11/	76	OT	OT	ST	ST	ST	ST	76	
77	RECEIVING WATER BODY	77	MISSISSIPPI	R WABASH	R ILLINOIS	ST	ST	ST	77	
78	POND DISCHARGE 12/	78	8.50	10.30	7.80	10.00	9.20	11.00	8.40	78
79	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79	9.80	10.30	9.30	10.00	9.20	11.00	8.40	79
80	WILFIRE (1,000 LBS/YR), BOILER BLOWDOWN	80	39.00	100.00	400.00	518.00	518.00	500.00	80	
81	WILFIRE (1,000 LBS/YR), BOILER BLOWDOWN	81	11,500.00	144.40	12,000.00	1,250.00	1,250.00	1,250.00	81	
82	- ASH SETTLING	82	33,000.00	103,347.00	32,000.00	81,744.38	81,744.38	44.91	82	
COOLING FACILITY DATA										
83	NO. OF UNITS AND CAPACITY (MW) 14/	83	4 232.60	4 212.50	3 354.40	2 416.00	4 54.35	4 54.35	83	
84	ONCE THROUGH COOLING (FRESH)	84							84	
85	COOLING POND(S)	85							85	
86	COOLING TOWER(S)	86							86	
87	COMBINATIONS 15/	87							87	
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1924 1958	1940 1954	1948 1960	1960 1968	1918 1956	1956 1956	88	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 16/	89	8.60 15.15	16.40	20.70 16.00	20.00	20.00	15.00 15.00	89	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	511.00	400.00	605.00	460.82	460.82	155.74	90	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	492.00	400.00	605.00	467.60	467.60	155.70	91	
CAPITAL COSTS OF COOLING FACILITIES										
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	1,705.00	278.10	313.50	2,800.00	640.00	640.00	92	
93	COOLING PONDS (\$1,000)	93							93	
94	COOLING TOWERS (\$1,000)	94							94	
ANNUAL COOLING WATER EXPENSES										
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	62.00	30.80	7.30	30.00	14.07	14.07	95	
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	3.40	4.50	6.70	3.00	1.00	1.00	96	
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES										
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	14.10	64.30	38.40	65.00	52.92	52.92	97	
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	7.30	5.10	11.50	13.00	9.24	9.24	98	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10. INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	CENTRAL ILLINOIS LIGHT CO.	2	CENTRAL LOUISIANA ELECTRIC CO.	3	CENTRAL LOUISIANA ELECTRIC CO.	4	CENTRAL MAINE PWR CO.	5	CENTRAL MAINE PWR CO.	6	NAME OF PLANT	7	WALLACE 079000-0400 ILLINOIS TAZEWELL	8	COUGHLIN 080000-0200 LOUISIANA EVANGELINE	9	TECHE 080000-1000 LOUISIANA ST. MARY	10	MASON 080500-1600 MAINE LINCOLN	11	WYMAN 080500-2700 MAINE CUMBERLAND	12	STATE	13	COUNTY	14	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	15	PLANT CAPACITY (MM)	16	ANNUAL GENERATION (MMH) 3/	17	PLANT HEAT RATE (BTU/KWH) 4/	18	559.23	19	10,696	20	3.04	21	9.37	22	17.06	23	.96	24	137,600	25	10	26	4,780.25	27	1,075	28	6.36	29	139,000	30	15	31	18,300.95	32	1,075	33	1,595.00	34	148,219	35	2.08	36	2,421.00	37	147,929	38	2.18	39	14,501.47	40	1,062	41	18.00	42	8.00	43	18.00	44	8.00	45	18.00	46	18.00	47	10.00	48	12.00	49	85.00	50	85.00	51	85.00	52	96.00	53	96.00	54	96.00	55	96.00	56	96.00	57	96.00	58	96.00	59	96.00	60	96.00	61	96.00	62	96.00	63	96.00	64	96.00	65	96.00	66	96.00	67	96.00	68	96.00	69	96.00	70	96.00	71	96.00	72	96.00	73	96.00	74	96.00	75	96.00	76	96.00	77	96.00	78	96.00	79	96.00	80	96.00	81	96.00	82	96.00	83	96.00	84	96.00	85	96.00	86	96.00	87	96.00	88	96.00	89	96.00	90	96.00	91	96.00	92	96.00	93	96.00	94	96.00	95	96.00	96	96.00	97	96.00	98	96.00	99	96.00	100	96.00
AIR QUALITY CONTROL DATA																																																																																																																																																																																																									
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ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES																																																																																																																																																																																																									

TABLE 10. INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	CENTRAL OPERATING CO.	CENTRAL P&L CO.	CENTRAL P&L CO.	CENTRAL P&L CO.	CENTRAL P&L CO.	1
2		2						2
3	NAME OF PLANT	3	SPORN	BATES	LAREDO	HILL	NUECES BAY	3
4	UTILITY-PLANT CODE	4	081000-0100	082000-0200	082000-0300	082000-0400	082000-0500	4
5	STATE	5	TEXAS	TEXAS	TEXAS	TEXAS	TEXAS	5
6	COUNTY	6	WEST VIRGINIA	MIOALGO	WE88	NUECES	NUECES	6
7	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	7	MASON	13	213	214	214	7
8	PLANT CAPACITY (MW)	8	103	05	213	13	12	8
9	ANNUAL GENERATION (MWH) 3/	9	1,105.60	188.70	72.00	574.20	244.50	9
10	PLANT HEAT RATE (BTU/KWH) 4/	10	6,722,300	803,400	323,400	2,332,300	1,070,900	10
11		11	9,238	11,076	12,787	10,609	10,423	11
AIR QUALITY CONTROL DATA								
FUEL CONSUMPTION DATA (ANNUAL)								
12	COAL: CONSUMPTION (1,000 TONS)	12	2,805.20					12
13	AVERAGE HEAT CONTENT (BTU/LB)	13	11,089					13
14	AVERAGE SULFUR CONTENT (%)	14	1.38					14
15	AVERAGE ASH CONTENT (%)	15	16.11					15
16	AVERAGE MOISTURE CONTENT (%)	16	7.55					16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	69.40					17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	137,000					18
19	AVERAGE SULFUR CONTENT (%)	19	10					19
20	GAS: CONSUMPTION (1,000 MCF)	20		8,564.00	3,818.00	24,213.00	10,886.00	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21		1,025	1,083	1,021	1,026	21
PLANT EQUIPMENT DATA								
22	BOILERS: - TOTAL NO.	22	5	2	2	4	4	22
23	- NO. OF WET BOTTOM	23						23
24	- NO. WITH FLY ASH REINJECTION	24						24
25	- NO. WITH MECHANICAL PRECIPITATORS	25	4					25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26	1					26
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27						27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	20.00	5.00	7.00	8.00	5.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30	85.00					30
31	TESTED, LOW - HIGH	31						31
32	ESTIMATED, LOW - HIGH	32	85.00					32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/ DESIGN, LOW - HIGH	33	95.00					33
34	TESTED, LOW - HIGH	34	83.90					34
35	EST., LOW - HIGH	35	83.90					35
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36						36
37	TESTED, LOW - HIGH	37						37
38	ESTIMATED, LOW - HIGH	38						38
PLANT OPERATING DATA AND COST OF EQUIPMENT								
39	EST. TOTAL ANNUAL PLANT EMISSIONS 7/ PARTICULATE MATTER (1,000 TONS)	39	59.46					39
40	SULFUR DIOXIDE (1,000 TONS)	40	75.90					40
41	NITROGEN OXIDES (1,000 TONS)	41	25.41					41
42	STACKS: - TOTAL NO.	42	2	1.67	.74	4.72	2.35	42
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	43	600.00	601.50	149.00	110.00	149.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	44						44
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	45	436.00					45
46	SOLD (1,000 TONS) 11/	46	1.10					46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	48						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50						50
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51						51
52	COMBINATION PRECIPITATORS (\$1,000) 4/	52						52
53	DESULFURIZATION SYSTEMS (\$1,000)	53						53
54	STACKS (\$1,000)	54	1,160.00	137.20	20.70	330.60	123.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	431.90					55
56	REVENUES FROM SALE OF ASH (\$1,000)	56						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						58
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	59	432.90					59
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60						60
WATER QUALITY CONTROL DATA								
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R OHIO	D IRRIG. DIST.	R RIO GRANDE	M	O SHIP CHANNEL	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	1,500.00	1.79	1.56	6.54	271.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	1,500.00	.42	.41	.73	271.00	63
64	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	64	12.90	1.37	1.15	5.82	2.33	64
65	PEAK LOAD MONTH: SUMMER - WINTER 15/	65	AUG	OEC			SEP	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	80.00	47.00			JAN	66
67	AT OUTFALL, SUMMER - WINTER	67	90.00	61.00			86.00	67
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	68	19,000.00				107.00	68
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D 16/	69	69,000.00					69
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70						70
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71	.19	.07	3.10	.15	.15	71
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	72		133.17				72
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	73	11.00	25.00			53.55	73
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74						74
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75	48.00	1.23	12.00	2.00	10.00	75
76	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 17/	76	YES	YES	YES	YES	YES	76
77	RECEIVING WATER BODY	77	ST	ST	ST	ST	ST	77
78	POND DISCHARGE 18/	78						78
79	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79	4.20					79
80	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	80	161.00					80
81		81						81
82		82	76,600.00					82
COOLING FACILITY DATA								
83	NO. OF UNITS AND CAPACITY (MW) USING 19/	83	5	1,105.60				83
84	ONCE THROUGH COOLING (FRESH)	84						84
85	ONCE THROUGH COOLING (SALINE)	85						85
86	COOLING POND(S)	86						86
87	COOLING TOWER(S)	87						87
88	COMBINATIONS 20/	88						88
89	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	89	1950	1960	1958	1960	1951	89
90	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 21/	90	12.20	12.60	16.40	16.90	15.50	90
91	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	91	1,561.60	268.00			120.00	91
92	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	92	1,607.00				689.00	92
CAPITAL COSTS OF COOLING FACILITIES								
93	ONCE THROUGH COOLING SYSTEMS (\$1,000)	93						93
94	COOLING PONDS (\$1,000)	94						94
95	COOLING TOWERS (\$1,000)	95						95
96	ANNUAL COOLING WATER EXPENSES	96	1,794.00		759.00		3,625.00	96
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	90.60	13.00	7.40	28.90	32.78	97
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	3.10	14.70	6.40	19.10	5.46	98
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES								
99	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	99	27.70	1.60	1.70	6.30	2.95	99
100	COST OF CHEMICAL ADDITIVES (\$1,000)	100	5.50	10.60	2.70	10.20	6.60	100

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	CENTRAL P&L CO.	1	CENTRAL P&L CO.	1	CENTRAL POWER AND LIGHT CO.	1	CENTRAL TELE & UTIL. CORP - W	1	CENTRAL TELE & UTIL. CORP - W	1
2	NAME OF PLANT	2	LA PALMA	2	VICTORIA	2	JOSLIN	2	PWR OLV.	2	PWR OLV.	2
3	UTILITY-PLANT CODE	3	082000-0600	3	082000-0700	3	082000-0800	3	CIMARRON RIVER	3	LARGE	3
4	STATE	4	TEXAS	4	TEXAS	4	TEXAS	4	KANSAS	4	KANSAS	4
5	COUNTY	5	CAMERON	5	VICTORIA	5	CALHOUN	5	SEWARD	5	FORO	5
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	214	6	213	6	214	6	100	6	100	6
7	PLANT CAPACITY (MW)	7	230.00	7	553.50	7	261.00	7	50.00	7	179.50	7
8	ANNUAL GENERATION (MMH) 3/	8	937,400	8	2,423,000	8	760,831	8	312,900	8	617,100	8
9	PLANT HEAT RATE (BTU/KWH) 3/	9	11,164	9	10,508	9	10,023	9	12,168	9	10,909	9
AIR QUALITY CONTROL DATA												
FUEL CONSUMPTION DATA (ANNUAL)												
12	COAL: CONSUMPTION (1,000 TONS)	12		12		12		12		12		12
13	AVERAGE HEAT CONTENT (BTU/LB)	13		13		13		13		13		13
14	AVERAGE SULFUR CONTENT (%)	14		14		14		14		14		14
15	AVERAGE ASH CONTENT (%)	15		15		15		15		15		15
16	AVERAGE MOISTURE CONTENT (%)	16		16		16		16		16		16
17	OIL: CONSUMPTION (1,000 BARRELS)	17		17		17		17		17	36.90	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18		18		18		18		18	150,000	18
19	AVERAGE SULFUR CONTENT (%)	19		19		19		19		19	.40	19
20	GAS: CONSUMPTION (1,000 MCF)	20	10,132.00	20	24,773.00	20	7,359.00	20	3,567.00	20	6,900.00	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,034	21	1,028	21	1,042	21	1,015	21	942	21
PLANT EQUIPMENT DATA												
22	BOILERS: - TOTAL NO.	22	7	22	4	22	1	22	1	22	5	22
23	- NO. OF WET BOTTOM	23		23		23		23		23		23
24	- NO. WITH FLY ASH REINJECTION	24		24		24		24		24		24
25	- NO. WITH MECHANICAL PRECIPITATORS	25		25		25		25		25		25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26		26		26		26		26		26
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27		27		27		27		27		27
28	- NO. WITH DESULFURIZATION SYSTEMS	28		28		28		28		28		28
29	- EXCESS AIR USED (1), LOWEST BOILER - HIGHEST BOILER 5/	29	8.00	29	5.00	29	6.00	29	5.00	29	8.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30		30		30		30		30		30
31	TESTED, LOW - HIGH	31		31		31		31		31		31
32	ESTIMATED, LOW - HIGH	32		32		32		32		32		32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/ DESIGN, LOW - HIGH	33		33		33		33		33		33
34	TESTED, LOW - HIGH	34		34		34		34		34		34
35	EST., LOW - HIGH	35		35		35		35		35		35
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36		36		36		36		36		36
37	TESTED, LOW - HIGH	37		37		37		37		37		37
38	ESTIMATED, LOW - HIGH	38		38		38		38		38		38
PLANT OPERATING DATA AND COST OF EQUIPMENT												
39	EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	39		39		39		39		39	.01	39
40	SULFUR DIOXIDE (1,000 TONS)	40		40		40		40		40	.05	40
41	NITROGEN OXIDES (1,000 TONS)	41	1.98	41	4.77	41	1.44	41	.70	41	1.43	41
42	STACKS: - TOTAL NO.	42	5	42	4	42	1	42	1	42	3	42
43	- HEIGHT (FEET), LOWEST - HIGHEST 7/	43	85.00	43	149.50	43	149.00	43	90.50	43	80.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 8/	44		44		44		44		44		44
45	TOTAL ASH: COLLECTED (1,000 TONS) 9/	45		45		45		45		45		45
46	SOLO (1,000 TONS) 10/	46		46		46		46		46		46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47		47		47		47		47		47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 11/	48		48		48		48		48		48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	49		49		49		49		49		49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50		50		50		50		50		50
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51		51		51		51		51		51
52	COMBINATION PRECIPITATORS (\$1,000) 12/	52		52		52		52		52		52
53	DESULFURIZATION SYSTEMS (\$1,000)	53		53		53		53		53		53
54	STACKS (\$1,000)	54	218.00	54	188.00	54	95.00	54	17.00	54	58.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55		55		55		55		55		55
56	REVENUES FROM SALE OF ASH (\$1,000)	56		56		56		56		56		56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57		57		57		57		57		57
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58		58		58		58		58		58
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	59		59		59		59		59		59
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60		60		60		60		60		60
WATER QUALITY CONTROL DATA												
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	M	61	R	61	GUADALUPE	61	B	61	COX	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	2.80	62		62	107.70	62	199.00	62	W	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	.37	63		63	100.80	63	.28	63	W	63
64	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	64	2.43	64		64	6.90	64	.55	64	W	64
65	PEAK LOAD MONTH: 15/	65		65	SEP	65	1.71	65		65	JUL	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER 16/	66		66	JAN	66	86.00	66		66	DEC	66
67	AT OUTFALL, SUMMER - WINTER	67		67	87.00	67	67.00	67	86.00	67	80.00	67
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	68		68	96.00	68	101.00	68	86.00	68	82.00	68
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OR 17/	69		69	2,914.00	69	671.00	69		69	77.00	69
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70		70		70		70		70		70
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71	.21	71	.44	71	1.50	71	.01	71	4.74	71
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	72	42.18	72	25.56	72	60.29	72	7.47	72	3.81	72
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	73		73		73		73		73		73
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74		74		74		74		74		74
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75	3.00	75	11.00	75		75	2.20	75	8.36	75
76	SEWAGE DISPOSAL: METHOOS PS, ST, SW, OTW/	76	YES	76	YES	76	YES	76	YES	76	YES	76
77	RECEIVING WATER BODY	77	PS	77	PS	77	SW	77	ST	77	ST	77
78	POND DISCHARGE: PM, BOILER BLOWDOWN - ASH SETTLING	78		78		78	B	78		78		78
79	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79		79		79		79		79		79
80	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	80		80		80		80		80		80
81	- ASH SETTLING	81		81		81		81		81		81
82		82		82		82		82		82		82
COOLING FACILITY DATA												
83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	83		83		83		83		83		83
84	ONCE THROUGH COOLING (SALINE)	84		84		84		84		84		84
85	COOLING POND(S)	85		85		85		85		85		85
86	COOLING TOWER(S)	86	6	86	2	86	1	86	2	86		86
87	COMBINATION 18/	87	230.00	87	298.50	87	261.00	87	50.00	87	167.50	87
88	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 19/	88	1926	88	1970	88	1952	88	1971	88	1963	88
89	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	89	11.50	89	16.10	89	22.60	89	10.60	89	20.10	89
90	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	90	379.80	90	622.70	90	325.00	90	93.60	90	242.34	90
91		91		91	288.40	91	258.00	91		91	13.40	91
CAPITAL COSTS OF COOLING FACILITIES												
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92		92	383.00	92	1,622.00	92		92	8.00	92
93	COOLING PONDS (\$1,000)	93		93		93		93		93		93
94	COOLING TOWERS (\$1,000)	94	109.00	94	2,247.00	94		94	299.00	94	970.00	94
ANNUAL COOLING WATER EXPENSES												
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	6.78	95	26.30	95	2.00	95	15.00	95	34.00	95
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	17.02	96	54.00	96	.40	96	8.00	96	15.00	96
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES												
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	1.63	97	3.60	97	3.20	97	5.00	97	12.00	97
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	6.42	98	9.90	98	15.30	98	2.00	98	2.00	98

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	CENTRAL TELE & UTIL. CORP. - W	1	CENTRAL TELE & UTIL. CORP. - SO.	1	CENTRAL TELE & UTIL. CORP. - SO.	1	CITY OF AUSTIN E	1	CITY OF AUSTIN E
2	NAME OF PLANT	2	PWR OIV.	2	COLO. PWR. OIV.	2	COLO. PWR. OIV.	2	DEPT.	2	DEPT.
3	UTILITY-PLANT CODE	3	MULLERGREEN	3	PUEBLO	3	CLARK	3	HOLLY STREET	3	SEAHOLM
4	STATE	4	082500-0600	4	082500-1000	4	082500-1200	4	089500-0100	4	089500-0200
5	COUNTY	5	KANSAS	5	COLORADO	5	COLORADO	5	TEXAS	5	TEXAS
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	BARTON	6	PUEBLO	6	FREMONT	6	TRAVIS	6	TRAVIS
7	PLANT CAPACITY (MW)	7	097	7	11	7	11	7	212	7	212
8	ANNUAL GENERATION (MWH) 2/	8	119,10	8	32,25	8	43,75	8	416,00	8	125,00
9	PLANT HEAT RATE (BTU/KWH) 2/	9	589,300	9	168,400	9	304,700	9	1,412,200	9	279,200
10		10	10,830	10	13,314	10	12,616	10	10,483	10	13,704
11		11		11		11		11		11	
AIR QUALITY CONTROL DATA											
FUEL CONSUMPTION DATA (ANNUAL)											
12	COAL: CONSUMPTION (1,000 TONS)	12		12	.20	12	96.70	12		12	
13	AVERAGE HEAT CONTENT (BTU/LB)	13		13	10,000	13	10,172	13		13	
14	AVERAGE SULFUR CONTENT (%)	14		14	.70	14	.70	14		14	
15	AVERAGE ASH CONTENT (%)	15		15	15.00	15	14.12	15		15	
16	AVERAGE MOISTURE CONTENT (%)	16		16	11.00	16	10.59	16		16	
17	OIL: CONSUMPTION (1,000 BARRELS)	17	3.50	17		17		17		17	
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	150,000	18	142,000	18		18	147,000	18	147,000
19	AVERAGE SULFUR CONTENT (%)	19	.40	19	.30	19		19	.90	19	.90
20	GAS: CONSUMPTION (1,000 MCF)	20	6,641.00	20	2,633.30	20	1,893.60	20	13,275.14	20	4,026.13
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	957	21	851	21	991	21	1,009	21	1,009
PLANT EQUIPMENT DATA											
22	BOILERS: - TOTAL NO.	22	3	22	5	22	2	22	3	22	5
23	- NO. OF WET BOTTOM	23		23		23		23		23	
24	- NO. WITH FLY ASH REINJECTION	24		24		24	2	24		24	
25	- NO. WITH MECHANICAL PRECIPITATORS	25		25	5	25	2	25		25	
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26		26		26	2	26		26	
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27		27		27		27		27	
28	- NO. WITH DESULFURIZATION SYSTEMS	28		28		28		28		28	
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	12.00	29	15.00	29	12.50	29	30.00	29	10.00
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30		30	93.00	30	88.00	30	93.00	30	
31	TESTED, LOW - HIGH	31		31		31		31		31	
32	ESTIMATED, LOW - HIGH	32		32		32		32		32	
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/	33		33	93.00	33		33	93.00	33	
34	DESIGN, LOW - HIGH	34		34		34		34		34	
35	TESTED, LOW - HIGH	35		35		35		35		35	
36	EST., LOW - HIGH	36		36		36		36		36	
37	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	37		37		37		37		37	
38	TESTED, LOW - HIGH	38		38		38		38		38	
39	EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	39		39	.02	39	1.57	39		39	
40	SULFUR DIOXIDE (1,000 TONS)	40		40	.01	40	1.33	40		40	
41	NITROGEN OXIDES (1,000 TONS)	41	1.30	41	.01	41	1.09	41	2.59	41	.79
42	STACKS: - TOTAL NO.	42		42	2	42	2	42	3	42	5
43	- HEIGHT (FEET), LOWEST - HIGHEST 7/	43	132.00	43	146.00	43	150.00	43	270.00	43	150.00
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 8/	44		44		44		44	150.00	44	154.00
45	TOTAL ASH: COLLECTED (1,000 TONS) 9/	45		45		45		45	15.60	45	156.00
46	SOLO (1,000 TONS) 10/	46		46		46		46		46	
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47		47		47		47		47	
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 11/	48		48		48		48		48	
49	ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	49		49		49		49		49	
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50		50	12.00	50	46.00	50		50	
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51		51		51		51		51	
52	COMBINATION PRECIPITATORS (\$1,000) 4/	52		52		52		52		52	
53	DESULFURIZATION SYSTEMS (\$1,000)	53		53		53		53		53	
54	STACKS (\$1,000)	54	69.00	54	66.00	54	66.00	54	7.90	54	7.90
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55		55	.30	55		55		55	
56	REVENUES FROM SALE OF ASH (\$1,000)	56		56		56		56		56	
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57		57		57		57		57	
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58		58		58		58		58	
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 12/	59		59	.30	59	7.90	59		59	
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60		60		60		60		60	
WATER QUALITY CONTROL DATA											
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	W	61	R ARKANSAS	61	R ARKANSAS	61	R COLORADO	61	R COLORADO
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	1.84	62	45.00	62	60.00	62	540.00	62	207.00
63	AVERAGE RATE OF DISCHARGE (CFS)	63	.61	63	45.00	63	59.00	63	540.00	63	207.00
64	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 13/	64	1.22	64	1.00	64	1.00	64	4.64	64	1.78
65	PEAK LOAD MONTH: JUL OEC	65		65	JUL OEC	65	JUL OEC	65	AUG OEC	65	AUG OEC
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66		66	72.00	66	70.00	66	79.00	66	77.00
67	AT OUTFALL, SUMMER - WINTER	67	84.00	67	77.00	67	71.00	67	79.00	67	77.00
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	68		68	800.00	68	800.00	68	550.00	68	300.00
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OIL	69		69	500.00	69	500.00	69	380.00	69	160.00
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70		70		70		70		70	
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71	2.26	71	.02	71	.15	71	2.74	71	1.83
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	72		72	7.34	72	.05	72	.09	72	
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	73	96.20	73		73		73		73	
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74	2.76	74		74		74		74	
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75	3.38	75	.25	75	.50	75		75	
76	SEWAGE DISPOSAL: METHOO PS, ST, SW, OTH	76	YES	76	YES	76	YES	76	YES	76	YES
77	RECEIVING WATER BODY	77	ST	77	PS	77	PS	77	PS	77	PS
78	POND DISCHARGE 14/	78		78		78		78		78	
79	BOILER BLOWDOWN - ASH SETTLING	79		79		79		79		79	
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80		80		80		80		80	
81	VOLUME (1,000 CU.FT/YR), BOILER BLOWDOWN	81		81		81		81		81	
82	- ASH SETTLING	82		82		82		82		82	
COOLING FACILITY DATA											
83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	83		83		83	3	83	416.00	83	125.00
84	ONCE THROUGH COOLING (SALINE)	84		84		84		84		84	
85	COOLING PONDS (S)	85		85		85		85		85	
86	COOLING TOWERS (S)	86	3	86	119.10	86	30.00	86	38.50	86	
87	COMBINATIONS 22/	87		87		87		87		87	
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1953	88	1963	88	1922	88	1958	88	1960
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 22/	89	10.30	89	14.50	89	9.00	89	13.00	89	15.00
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90		90	214.58	90	90.00	90	72.80	90	618.00
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91		91		91	90.00	91	72.80	91	297.00
CAPITAL COSTS OF COOLING FACILITIES											
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92		92	200.00	92	100.00	92		92	
93	COOLING PONDS (\$1,000)	93		93	50.00	93	30.00	93		93	
94	COOLING TOWERS (\$1,000)	94	714.00	94	298.00	94		94		94	
ANNUAL COOLING WATER EXPENSES											
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95		95	57.00	95	25.00	95	36.50	95	
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96		96	17.00	96	.80	96	.20	96	
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES											
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97		97	15.00	97	8.00	97	8.00	97	
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98		98	2.00	98	.80	98	1.00	98	2.00

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	CITY OF AUSTIN ELECTRIC DEPT.	CITY OF LAFAYETTE UTIL. SYSTEM	CITY OF LAFAYETTE UTIL. SYSTEM	CITY P & L DEPT. INDEPENDENCE MO.	CITY P. S. 80. SAN ANTONIO	1
2	NAME OF PLANT	2	OECKER CREEK	BONIN	ROOEMACHER	BLUE VALLEY	LECN CREEK	2
3	UTILITY-PLANT CODE	3	089500-0300	094000-0100	094000-0300	099500-0100	100000-0100	3
4	STATE	4	TEXAS	LOUISIANA	LOUISIANA	MISSOURI	TEXAS	4
5	COUNTY	5	TRAVIS	LAFAYETTE	LAFAYETTE	JACKSON	BEAR	5
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	212	106	106	094	217	6
7	PLANT CAPACITY (MM)	7	321.00	143.35	42.65	115.00	263.64	7
8	ANNUAL GENERATION (MMH) 3/	8	1,149,300	394,300	70,700		377,300	8
9	PLANT HEAT RATE (BTU/KWH) 4/	9	10,282	11,625	17,796		11,157	9
10		10						10
11		11						11
AIR QUALITY CONTROL DATA								
FUEL CONSUMPTION DATA (ANNUAL)								
12	COAL: CONSUMPTION 11,000 TONS	12				21.00		12
13	AVERAGE HEAT CONTENT (BTU/LB)	13				12,501		13
14	AVERAGE SULFUR CONTENT (%)	14				3.46		14
15	AVERAGE ASH CONTENT (%)	15				11.06		15
16	AVERAGE MOISTURE CONTENT (%)	16				4.93		16
17	OIL: CONSUMPTION 11,000 BARRELS	17						17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18						18
19	AVERAGE SULFUR CONTENT (%)	19						19
20	GAS: CONSUMPTION 11,000 MCF	20	11,723.63	4,326.29	955.03	4,676.60	2,947.20	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,008	1,078	1,313	977	1,008	21
PLANT EQUIPMENT DATA								
22	BOILERS: - TOTAL NO.	22	1	2	4	3	4	22
23	- NO. OF WET BOTTOM	23						23
24	- NO. WITH FLY ASH REINJECTION	24						24
25	- NO. WITH MECHANICAL PRECIPITATORS	25				3		25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26						26
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27						27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	10.00	7.00	7.00	15.00	3.50	4.00
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30					85.00	90.30
31	TESTED, LOW - HIGH	31						
32	ESTIMATED, LOW - HIGH	32					85.00	90.30
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	33						
34	TESTED, LOW - HIGH	34						
35	EST., LOW - HIGH	35						
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36						
37	TESTED, LOW - HIGH	37						
38	ESTIMATED, LOW - HIGH	38						
PLANT OPERATING DATA AND COST OF EQUIPMENT								
39	EST. TOTAL ANNUAL PLANT EMISSIONS: 2/ PARTICULATE MATTER (1,000 TONS)	39					.18	39
40	SULFUR DIOXIDE (1,000 TONS)	40					1.42	40
41	NITROGEN OXIDES (1,000 TONS)	41	2.29	.81	.19		1.23	41
42	STACKS: - TOTAL NO.	42	1	2	3	3	3	42
43	- HEIGHT (FEET), LOWEST - HIGHEST 6/	43	88.30	88.00	131.00	62.00	69.20	152.50
44	COMBUSTION CYCLE ADJUSTIVES (1,000 TONS) 7/	44						250.00
45	TOTAL ASH: COLLECTED (1,000 TONS) 8/	45						100.00
46	SOLO (1,000 TONS) 9/	46						150.00
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						
48	EQUIVALENT OF ACIO COLLECTED (1,000 TONS) 12/	48						
49	ELEMENTAL AND EQUIVALENT OF ACIO SOLO (1,000 TONS)	49						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50					58.80	
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51						
52	COMBINATION PRECIPITATORS (\$1,000) 4/	52						
53	DESULFURIZATION SYSTEMS (\$1,000)	53						
54	STACKS (\$1,000)	54		13.90	8.30		99.70	69.20
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55					7.00	
56	REVENUES FROM SALE OF ASH (\$1,000)	56						
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	59					22.00	
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60						
WATER QUALITY CONTROL DATA								
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, H & O EXPL. IN FOOTNOTES)	61	L	W	W	W	W	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	387.00	156.00	93.00	1.30	1.10	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	387.00	65.00	40.00		.50	63
64	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	64	3.33	91.00	53.00	1.30	.60	64
65	PEAK LOAD MONTH: SUMMER - WINTER 15/	65	AUG	AUG	AUG	AUG	OEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	78.00	70.00	85.00	98.00	96.50	66
67	AT OUTFALL, SUMMER - WINTER	67	85.00	76.00	93.00	79.00	76.00	67
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	68						68
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OI 16/	69						69
70	CHEMICAL ADJUSTIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70						70
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71	.73	.02	.01	8.70	.03	71
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	72		.02	.11	245.15	9.02	72
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	73				46.68		73
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74		5.00	2.00	8.35	8.17	74
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75		YES	YES	YES	YES	75
76	SEWAGE DISPOSAL: METHOO PS, ST, SW, OT 17/	76	ST	PS	PS	ST	ST	76
77	RECEIVING WATER BODY	77						77
78	POND DISCHARGE: 18/	78				8.00		78
79	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79						79
80	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	80						80
81		81						81
82		82						82
COOLING FACILITY DATA								
83	NO. OF UNITS AND CAPACITY (MM) USING: 19/ ONCE THROUGH COOLING (FRESH)	83	1	321.00				83
84	ONCE THROUGH COOLING (SALINE)	84						84
85	COOLING PONDS (S)	85						85
86	COOLING TOWERS (S)	86						86
87	COMBINATIONS 20/	87						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1970	1965	1970	1951	1960	1958
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 21/	89	10.00	20.00	20.00	20.00	15.00	16.00
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	387.00	247.00	104.40	199.30	17.40	391.90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	387.00					
CAPITAL COSTS OF COOLING FACILITIES								
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92						92
93	COOLING PONDS (\$1,000)	93						93
94	COOLING TOWERS (\$1,000)	94		509.21	257.53	325.28	1,113.50	94
ANNUAL COOLING WATER EXPENSES								
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95		4.00	4.50		27.40	95
96	COST OF CHEMICAL ADJUSTIVES (\$1,000)	96		17.61	4.14	14.00	7.70	96
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES								
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97		8.00	6.50		11.50	97
98	COST OF CHEMICAL ADJUSTIVES (\$1,000)	98	2.90	6.56	2.20	1.70	3.20	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	CITY P. S. 80, SAN ANTONIO	1	CITY P. S. 80, SAN ANTONIO	1	CITY P. S. 80, SAN ANTONIO	1	CITY UTIL. OF SPRINGFIELD	1	CLEVELAND ELEC. ILLUM. CO.
2	NAME OF PLANT	2	MISSION ROAD	2	8AUNIG	2	TUTTLE	2	JAMES RIVER	2	ASHTABULA
3	UTILITY-PLANT CODE	3	100000-0200	3	100000-0300	3	100000-0400	3	101000-0100	3	104000-0100
4	STATE	4	TEXAS	4	TEXAS	4	TEXAS	4	MISSOURI	4	OHIO
5	COUNTY	5	BEXAR	5	BEXAR	5	BEXAR	5	GREENE	5	ASHTABULA
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	217	6	217	6	217	6	139	6	170
7	PLANT CAPACITY (MW)	7	163.64	7	894.01	7	493.95	7	257.00	7	456.00
8	ANNUAL GENERATION (MWH) 3/	8	278,800	8	2,824,100	8	1,347,100	8	826,200	8	1,898,600
9	PLANT HEAT RATE (BTU/KWH) 3/	9	11,308	9	9,937	9	10,594	9	10,653	9	11,050
10	AIR QUALITY CONTROL DATA										
11	FUEL CONSUMPTION DATA (ANNUAL)										
12	COAL: CONSUMPTION (1,000 TONS)	12		12		12		12	37.89	12	970.00
13	AVERAGE HEAT CONTENT (BTU/LB)	13		13		13		13	12,315	13	10,801
14	AVERAGE SULFUR CONTENT (%)	14		14		14		14	4.36	14	3.27
15	AVERAGE ASH CONTENT (%)	15		15		15		15	15.57	15	18.17
16	AVERAGE MOISTURE CONTENT (%)	16		16		16		16	4.39	16	7.11
17	OIL: CONSUMPTION (1,000 BARRELS)	17	.03	17	.34	17		17		17	4.73
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	137,000	18	136,840	18		18		18	137,269
19	AVERAGE SULFUR CONTENT (%)	19	.08	19	.08	19		19		19	.10
20	GAS: CONSUMPTION (1,000 MCF)	20	3,324.50	20	33,545.00	20	12,955.20	20	9,877.00	20	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,023	21	1,026	21	1,025	21	1,013	21	
22	PLANT EQUIPMENT DATA										
23	BOILERS: - TOTAL NO.	23	3	23	3	23	4	23	5	23	T
24	- NO. OF WET BOTTOM	24		24		24		24		24	
25	- NO. WITH FLY ASH REINJECTION	25		25		25		25		25	
26	- NO. WITH MECHANICAL PRECIPITATORS	26		26		26		26	4	26	7
27	- NO. WITH ELECTROSTATIC PRECIPITATORS	27		27		27		27	1	27	
28	- NO. WITH COMBINATION PRECIPITATORS 4/	28		28		28		28		28	
29	- NO. WITH DESULFURIZATION SYSTEMS	29		29		29		29		29	
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30	10.00	30	7.00	30	10.00	30	20.00	30	25.00
31	TESTED, LOW - HIGH	31		31		31		31	87.00	31	88.00
32	ESTIMATED, LOW - HIGH	32		32		32		32		32	24.00
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 5/ DESIGN, LOW - HIGH	33		33		33		33	87.00	33	88.00
34	TESTED, LOW - HIGH	34		34		34		34		34	90.00
35	EST., LOW - HIGH	35		35		35		35		35	95.60
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36		36		36		36	98.00	36	98.00
37	TESTED, LOW - HIGH	37		37		37		37		37	75.00
38	ESTIMATED, LOW - HIGH	38		38		38		38		38	76.00
39	PLANT OPERATING DATA AND COST OF EQUIPMENT										
40	EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	40		40		40		40	.31	40	36.42
41	SULFUR DIOXIDE (1,000 TONS)	41	.65	41	6.54	41	2.53	41	3.24	41	62.16
42	NITROGEN OXIDES (1,000 TONS)	42	2	42	3	42	5	42	2.27	42	8.74
43	STACKS: - TOTAL NO.	43	150.00	43	174.00	43	149.50	43	200.00	43	274.00
44	- HEIGHT (FEET), LOWEST - HIGHEST 6/	44		44		44		44	350.00	44	373.00
45	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 7/	45		45		45		45	5.00	45	142.60
46	TOTAL ASH: COLLECTED (1,000 TONS) 8/	46		46		46		46		46	
47	SOL (1,000 TONS) 9/	47		47		47		47		47	
48	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	48		48		48		48		48	
49	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 10/	49		49		49		49		49	
50	ELEMENTAL AND EQUIVALENT OF ACID SOL (1,000 TONS)	50		50		50		50		50	
51	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	51		51		51		51	200.00	51	658.00
52	ELECTROSTATIC PRECIPITATORS (\$1,000)	52		52		52		52		52	
53	COMBINATION PRECIPITATORS (\$1,000) 11/	53		53		53		53		53	
54	DESULFURIZATION SYSTEMS (\$1,000)	54		54		54		54		54	
55	STACKS (\$1,000)	55	35.90	55	104.50	55		55	422.80	55	261.00
56	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	56		56		56		56	4.30	56	392.00
57	REVENUES FROM SALE OF ASH (\$1,000)	57		57		57		57		57	
58	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	58		58		58		58		58	
59	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	59		59		59		59		59	
60	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 12/	60		60		60		60	4.30	60	392.00
61	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	61		61		61		61		61	
62	WATER QUALITY CONTROL DATA										
63	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	63	W	63	D	63	W	63	L	63	L
64	AVERAGE RATE OF WITHDRAWAL (CFS)	64	1.20	64	14.00	64	4.90	64	271.80	64	619.00
65	AVERAGE RATE OF DISCHARGE (CFS)	65	.50	65	.10	65	2.00	65	271.80	65	619.00
66	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 13/	66	.70	66	.90	66	2.90	66	5.32	66	619.00
67	PEAK LOAD MONTH: SUMMER - WINTER	67	AUG	67	AUG	67	AUG	67	AUG	67	AUG
68	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	68	79.00	68	63.00	68	85.00	68	91.00	68	72.00
69	AT OUTFALL, SUMMER - WINTER	69	100.00	69	75.00	69	100.00	69	89.00	69	80.00
70	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	70	62.40	70	25.40	70	75.00	70	28.00	70	59.00
71	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OIL	71		71		71		71	510.00	71	
72	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	72	7.23	72	.14	72	.44	72	.24	72	7.10
73	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	73		73	.80	73	60.55	73	20.25	73	63.72
74	LIME (TONS), COOLING WATER - BOILER MAKEUP	74		74		74	12.39	74		74	17.50
75	ALUM (TONS), COOLING WATER - BOILER MAKEUP	75		75		75	1.99	75		75	
76	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	76	2.08	76	43.11	76	1.04	76	5.69	76	44.00
77	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	77	YES	77	YES	77	YES	77	YES	77	YES
78	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 14/	78	PS	78	OT	78	ST	78	ST	78	ST
79	RECEIVING WATER BODY	79		79		79		79		79	
80	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	80	10.00	80	10.00	80	10.00	80		80	7.80
81	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	81	20.00	81	100.00	81	100.00	81		81	125.00
82	VOLUME (1,000 CU.FT./YR), BOILER BLOWDOWN - ASH SETTLING	82	100.00	82	287.18	82	30.00	82		82	122,000.00
83	COOLING FACILITY DATA										
84	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	84		84		84		84	5	84	456.00
85	ONCE THROUGH COOLING (SALINE)	85		85		85		85		85	
86	COOLING PONDS(S)	86	3	86	3	86	4	86		86	
87	COOLING TOWER(S)	87	163.64	87	894.01	87	493.96	87		87	
88	COMBINATIONS 15/	88		88		88		88		88	
89	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	89	1945	89	1958	89	1954	89	1957	89	1942
90	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 16/	90	13.00	90	18.00	90	17.50	90	19.00	90	19.58
91	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	91	248.90	91	1,394.00	91	656.10	91	457.30	91	1,188.00
92	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	92		92		92		92	1,188.00	92	
93	CAPITAL COSTS OF COOLING FACILITIES										
94	ONCE THROUGH COOLING SYSTEMS (\$1,000)	94		94		94		94	849.50	94	2,224.00
95	COOLING PONDS (\$1,000)	95		95		95		95		95	
96	COOLING TOWERS (\$1,000)	96	925.00	96	4,717.00	96	1,891.00	96	900.00	96	
97	ANNUAL COOLING WATER EXPENSES										
98	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	98	26.40	98	35.40	98	40.90	98	53.70	98	108.00
99	COST OF CHEMICAL ADDITIVES (\$1,000)	99	9.80	99	4.70	99	31.70	99	7.70	99	2.00
100	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES										
101	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	101	19.50	101	38.60	101	18.80	101	11.10	101	297.00
102	COST OF CHEMICAL ADDITIVES (\$1,000)	102	10.70	102	21.00	102	10.10	102	6.20	102	14.00

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	CLEVELAND ELEC. ILLUM. CO	CLEVELAND ELEC. ILLUM. CO	CLEVELAND ELEC. ILLUM. CO	COLO SPRINGS P&L OEPT.	COLO SPRINGS P&L OEPT.	1	
2	NAME OF PLANT	2	AVON LAKE	EAST LAKE	LAKE SHORE	ORAKE	8105 ALL	2	
3	UTILITY-PLANT CODE	3	104000-0200	104000-0300	104000-0400	108000-0100	108000-0200	3	
4	STATE	4	OHIO	OHIO	OHIO	COLORADO	COLORADO	4	
5	COUNTY	5	LORAIN	LAKE	CUYAHOGA	EL PASO	EL PASO	5	
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	174 04	174 04	174 04	038 11	038 11	6	
7	PLANT CAPACITY (MM)	7	1,275.00	577.00	518.00	150.00	62.50	7	
8	ANNUAL GENERATION (MMH) 3/	8	6,553,500	4,071,100	2,597,300	800,800	165,800	8	
9	PLANT HEAT RATE (BTU/KWH) 3/	9	9,945	9,919	10,998	11,052	13,416	9	
AIR QUALITY CONTROL DATA									
FUEL CONSUMPTION DATA (ANNUAL)									
12	COAL: CONSUMPTION (1,000 TONS)	12	2,899.30	1,771.20	1,290.10	89.30		12	
13	AVERAGE HEAT CONTENT (BTU/LB)	13	11,220	11,386	11,026	10,210		13	
14	AVERAGE SULFUR CONTENT (%)	14	2.58	3.04	2.84	1.08		14	
15	AVERAGE ASH CONTENT (%)	15	14.54	15.14	15.91	13.82		15	
16	AVERAGE MOISTURE CONTENT (%)	16	7.86	6.90	7.92	11.62		16	
17	DIL: CONSUMPTION (1,000 BARRELS)	17	19.96	7.63	18.24	.60	22.20	17	
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	137,247	137,406	137,258	149,245	149,800	18	
19	AVERAGE SULFUR CONTENT (%)	19	.10	.10	.10	1.02	.62	19	
20	GAS: CONSUMPTION (1,000 MCF)	20				7,107.80	2,110.00	20	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21				988	988	21	
PLANT EQUIPMENT DATA									
22	BOILERS: - TOTAL NO.	22	12	4	5	5	3	22	
23	- NO. OF NET BOTTOM	23			4	2		23	
24	- NO. WITH FLY ASH REINJECTION	24	1					24	
25	- NO. WITH MECHANICAL PRECIPITATORS	25				1		25	
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26	12		5			26	
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27		4		1		27	
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28	
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	18.00 55.00	22.00	20.00 23.00	8.00 15.00	15.00	29	
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30						30	
31	TESTED, LOW - HIGH	31						31	
32	ESTIMATED, LOW - HIGH	32						32	
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/:	33	94.00 99.50	98.20	90.00 99.40	99.50		33	
34	DESIGN, LOW - HIGH	34	81.00 97.00	95.00 99.50	99.80 98.80	96.00		34	
35	TESTED, LOW - HIGH	35	76.00 98.00	97.50 98.00	82.00 99.00	99.40		35	
36	EST., LOW - HIGH	36						36	
37	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	37						37	
38	TESTED, LOW - HIGH	38						38	
39	ESTIMATED, LOW - HIGH	38						38	
PLANT OPERATING DATA AND COST OF EQUIPMENT									
39	EST. TOTAL ANNUAL PLANT EMISSIONS 7/:	39	33.24	4.98	10.61	.05		39	
40	PARTICULATE MATTER (1,000 TONS)	40	146.60	105.54	71.81	1.89	.05	40	
41	SULFUR DIOXIDE (1,000 TONS)	41	26.14	15.96	15.42	2.73	.46	41	
42	NITROGEN OXIDES (1,000 TONS)	42	5	4	5	3		42	
43	STACKS: - TOTAL NO.	43	277.00	600.00	300.00	268.00 320.00	56.00 200.00	142.10	43
44	- HEIGHT (FEET), LOWEST - HIGHEST 8/	44							44
45	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	45							45
46	TOTAL ASH: COLLECTED (1,000 TONS) 10/	46	419.30	355.00	179.40	12.00			46
47	SOLO (1,000 TONS) 11/	47							47
48	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	48							48
49	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	49							49
50	ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	50							50
51	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	51							51
52	ELECTROSTATIC PRECIPITATORS (\$1,000)	52	2,492.00		1,399.00		27.20		52
53	COMBINATION PRECIPITATORS (\$1,000) 4/	53		2,354.00		266.30			53
54	DESULFURIZATION SYSTEMS (\$1,000)	54							54
55	STACKS (\$1,000)	55	1,848.00	1,014.00	481.00	220.10			55
56	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	56	1,153.00	972.00	863.00				56
57	REVENUES FROM SALE OF ASH (\$1,000)	57							57
58	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	58							58
59	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	59							59
60	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	60	1,153.00	972.00	863.00	13.00			60
61	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60							60
WATER QUALITY CONTROL DATA									
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	L ERIE	L ERIE	L ERIE	M	M	61	
62	AVERAGE RATE OF WITHDRAWAL (CFD)	62	1,104.00	970.00	876.00	1.91	.61	62	
63	AVERAGE RATE OF DISCHARGE (CFD)	63	1,104.00	970.00	876.00	.36	.15	63	
64	AVERAGE RATE OF CONSUMPTION (CFD), CALCULATED - REPORTED 14/	64	9.49	8.34	7.53	1.55	.45	64	
65	PEAK LOAD MONTH: AUG	65	9.49	8.34	7.53			65	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT OVERFLOW, SUMMER - WINTER	66	74.00	73.00	75.00	35.00		66	
67	AT OUTFALL, SUMMER - WINTER	67	92.00	93.00	93.00	52.00		67	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFD): SUMMER	68						68	
69	- WINTER	69						69	
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OM	70						70	
71	CHEMICAL ADDITIVES: PHOSPHATE (T-HEX), COOLING WATER - BOILER MAKEUP	71		.30	1.05	.15	.01	71	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	200.17	77.36	129.43	.25	.03	72	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73	40.63	18.00	22.50			73	
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74						74	
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	95.00	55.00	104.50	2.52	1.75	75	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76	YES	YES	YES	YES	YES	76	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OTM	77	PS	ST	PS	PS	PS	77	
78	RECEIVING WATER BODY	78		ERIE				78	
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	79						79	
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80	7.00	7.70	7.30	11.70		80	
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81	100.00	125.00	433.00			81	
82	- ASH SETTLING	82	1,300.00	47,700.00	223,000.00			82	
COOLING FACILITY DATA									
83	NO. OF UNITS AND CAPACITY (MM) USING 25/:	83	9 1,275.00	4 577.00	5 514.00			83	
84	ONCE THROUGH COOLING (FRESH)	84						84	
85	ONCE THROUGH COOLING (SALINE)	85						85	
86	COOLING POND(S)	86				4 16.00		86	
87	COOLING TOWER(S)	87				3 135.00	3 62.50	87	
88	COMBINATIONS 22/	88						88	
89	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	89	1926 1968	1953 1956	1940 1960	1946 1968	1953 1956	89	
90	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 23/	90	8.00 17.00	11.00 12.00	9.00 17.00	14.00 18.00	14.00 18.00	90	
91	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFD)	91	1,893.10	970.00	876.00	280.40	122.30	91	
92	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFD)	91	994.00	970.00	876.00			91	
CAPITAL COSTS OF COOLING FACILITIES									
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	3,929.00	3,444.00	1,831.00			92	
93	COOLING PONDS (\$1,000)	93				19.00		93	
94	COOLING TOWERS (\$1,000)	94				1,333.00		94	
ANNUAL COOLING WATER EXPENSES									
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	174.00	180.00	233.00	.53	64.20	95	
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	4.00	2.00	4.00	8.46	2.50	96	
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES									
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	377.00	361.00	409.00			97	
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	48.00	15.00	24.00	.51	.20	98	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	14	COLORADO - UTE E	COLORADO - UTE E	COLUMBUS & S OHIO	COLUMBUS & S OHIO	COLUMBUS & S OHIO	1
2		15	ASSN. INC.	ASSN. INC.	ELECTRIC CO.	ELECTRIC CO.	ELECTRIC CO.	2
3	NAME OF PLANT	16	HAYDEN	NUCLA	CONESVILLE	PICWAY	POSTON	3
4	UTILITY-PLANT CODE	17	108500-0100	108500-0300	109500-0200	109500-0500	109500-0600	4
5	STATE	18	COLORADO	COLORADO	OHIO	OHIO	OHIO	5
6	COUNTY	19	ROUIT	MONTROSE	COSHOCTON	PICKAWAY	ATHENS	6
7	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	20	040	14	035	14	183	05
8	PLANT CAPACITY (MW)	21	163.20	34.50	433.50	176	05	230.75
9	ANNUAL GENERATION (MWH) 3/	22	1,267,700	97,100	2,542,500	511,400	1,102,100	13,372
10	PLANT HEAT RATE (BTU/KWH) 4/	23	9,925	14,407	10,439	13,372	13,234	13,234
11		24						
AIR QUALITY CONTROL DATA								
FUEL CONSUMPTION DATA (ANNUAL)								
12	COAL: CONSUMPTION (1,000 TONS)	12	583.80	58.00	1,256.00	303.00	635.00	12
13	AVERAGE HEAT CONTENT (BTU/LB)	13	10,770	11,999	10,822	11,285	11,086	13
14	AVERAGE SULFUR CONTENT (%)	14	4.61	4.70	4.51	3.69	2.15	14
15	AVERAGE ASH CONTENT (%)	15	10.24	11.75	15.89	12.69	12.23	15
16	AVERAGE MOISTURE CONTENT (%)	16	11.09	6.60	7.87	8.17	9.55	16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	1.26					17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	130,000					18
19	AVERAGE SULFUR CONTENT (%)	19	.20					19
20	GAS: CONSUMPTION (1,000 MCF)	20						20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21						21
PLANT EQUIPMENT DATA								
22	BOILERS: - TOTAL NO.	22	1	3	3	4	4	22
23	- NO. OF WET BOTTOM	23			2	3		23
24	- NO. WITH FLY ASH REINJECTION	24		3				24
25	- NO. WITH MECHANICAL PRECIPITATORS	25		3	1	1	4	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26	1					26
27	- NO. WITH COMBINATION PRECIPITATORS 5/	27						27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 6/	29	20.00	26.00	11.00	22.00	20.00	28.00
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30		86.00	83.00	85.00	85.00	
31	TESTED, LOW - HIGH	31						
32	ESTIMATED, LOW - HIGH	32		82.00	60.00	50.00	50.00	
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/; DESIGN, LOW - HIGH	33	98.50					
34	TESTED, LOW - HIGH	34	98.20					
35	EST., LOW - HIGH	35	96.00					
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36						
37	TESTED, LOW - HIGH	37						
38	ESTIMATED, LOW - HIGH	38						
PLANT OPERATING DATA AND COST OF EQUIPMENT								
39	EST. TOTAL ANNUAL PLANT EMISSIONS 7/ PARTICULATE MATTER (1,000 TONS)	39	2.03	1.71	36.36	20.51	33.01	39
40	SULFUR DIOXIDE (1,000 TONS)	40	4.69	.80	111.03	21.91	26.76	40
41	NITROGEN OXIDES (1,000 TONS)	41	5.26	.44	26.59	3.60	5.72	41
42	STACKS: - TOTAL NO.	42		3	1	4	2	42
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	43	250.00		450.00	127.50	288.50	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	44		100.00			200.00	44
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	45	57.80	6.50	16.70	18.80	73.60	45
46	SOLO (1,000 TONS) 11/	46						46
47	ELEMENTAL COLLECTED (1,000 TONS)	47						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	48						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	49						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50		240.00	287.00	180.00	639.00	50
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51	579.00					51
52	COMBINATION PRECIPITATORS (\$1,000) 13/	52						52
53	DESULFURIZATION SYSTEMS (\$1,000)	53						53
54	STACKS (\$1,000)	54	215.00	318.00	788.00	165.00	120.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	28.50	24.80	139.00	69.00	99.00	55
56	REVENUES FROM SALE OF ASH (\$1,000)	56						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						58
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 14/	59	39.60	24.80	139.00	69.00	99.00	59
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60						60
WATER QUALITY CONTROL DATA								
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R YAMPA	R SAN MIGUEL	R MUSKINGUM	R SCIOTO	W	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	2.10	32.00	389.00	202.00	5.36	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	.50	31.80	389.00	202.00	1.52	63
64	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 15/	64	1.60	.20	3.35	1.74	3.84	64
65	PEAK LOAD MONTH: SUMMER - WINTER 16/	65	JUN	OEC	JUN	NOV	JUN	NOV
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	69.00	33.00	58.00	64.00	81.00	60.00
67	AT OUTFALL, SUMMER - WINTER	67	64.00	50.00	62.00	73.00	95.00	78.00
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	68	6,070.00	650.00	2,062.00	1,083.00		
69		69	236.00	120.00	1,038.00	1,105.00		
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OM/	70						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71	7.34	.15		.15	1.29	26.15
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	6.02	15.58	1.34	187.00	30.60	.10
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73	6.98	2.99			44.00	1,327.88
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74	60.52	25.94				154.60
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	2.00		60.00			36.13
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76	YES	YES	YES	YES	YES	YES
77	SEWAGE DISPOSAL: METHOD, P, S, ST, SW, OTB/	77	ST	ST	ST	ST	ST	ST
78	RECEIVING WATER BODY	78	R YAMPA	R SAN MIGUEL		R SCIOTO	R HOCKING	
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	79	8.80	8.50		9.00	8.60	79
80	SUSPENDED SOLIDS (PPH), BOILER BLOWDOWN - ASH SETTLING	80	250.00	250.00		5.00	5.00	80
81	VOLUME (1,000 CU.FT./YR), BOILER BLOWDOWN	81						81
82	- ASH SETTLING	82			166,000.00	66,000.00	30,500.00	82
COOLING FACILITY DATA								
83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	83			3	433.50	5	200.75
84	ONCE THROUGH COOLING (SALINE)	84						
85	COOLING PONDS 17/	85						
86	COOLING TOWERS 18/	86	1	163.20			4	232.00
87	COMBINATIONS 19/	87			3	34.50		
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1965	1959	1957	1962	1926	1955
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 20/	89	19.70	17.30	16.00	21.00	10.00	18.00
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	186.70	90.00		465.00	386.00	436.00
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91		90.00		465.00	386.00	
CAPITAL COSTS OF COOLING FACILITIES								
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92		382.00		2,461.00	1,399.00	
93	COOLING PONDS (\$1,000)	93		296.00				
94	COOLING TOWERS (\$1,000)	94	632.00					4,159.00
ANNUAL COOLING WATER EXPENSES								
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	52.20	23.50	31.80	10.40	126.20	
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	32.60	.20	6.70		58.60	
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES								
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	34.90	4.10	48.30	51.90	15.10	97
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	11.60	2.60	38.90	8.60	3.70	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

NAME OF UTILITY	COMMONWEALTH EDISON CO.	COMMONWEALTH EDISON CO.	COMMONWEALTH EDISON CO.	COMMONWEALTH EDISON CO.	COMMONWEALTH EDISON CO.
NAME OF PLANT	STATE LINE	FISK	CALUMET	CRAWFORD	OIXON
UTILITY-PLANT CODE	111000-0100	111500-0100	111500-0200	111500-0300	111500-0400
STATE	INDIANA	ILLINOIS	ILLINOIS	ILLINOIS	ILLINOIS
COUNTY	LAKE	COOK	COOK	COOK	LEE
WATER QUALITY CONTROL REGION NO. 1 - WATER RESOURCE REGION NO. 2	067 04	067 04	067 04	067 04	071 07
PLANT CAPACITY (MM)	972.00	547.00	107.00	702.00	119.00
ANNUAL GENERATION (MMH)	5,156,700	2,176,300	612,200	3,137,300	692,200
PLANT HEAT RATE (BTU/KWH)	10,195	10,354	12,636	10,333	11,775

AIR QUALITY CONTROL DATA					
FUEL CONSUMPTION DATA (ANNUAL)					
COAL: CONSUMPTION (1,000 TONS)	1,657.00	632.00	120.00	673.00	268.00
AVERAGE HEAT CONTENT (BTU/LB)	9,878	9,043	9,142	8,934	11,149
AVERAGE SULFUR CONTENT (%)	2.00	1.04	1.40	1.09	2.22
AVERAGE ASH CONTENT (%)	10.46	8.29	9.70	8.72	8.28
AVERAGE MOISTURE CONTENT (%)	17.95	23.93	22.29	23.97	14.20
OIL: CONSUMPTION (1,000 BARRELS)					
AVERAGE HEAT CONTENT (BTU/GAL)					
AVERAGE SULFUR CONTENT (%)					
GAS: CONSUMPTION (1,000 MCF)	15,348.30	11,142.60	5,356.50	20,197.40	2,032.70
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,035	1,033	1,033	1,033	1,033

PLANT EQUIPMENT DATA					
BOILERS: - TOTAL NO.	11	5	2	8	2
- NO. OF WET BOTTOM	7	2			2
- NO. WITH FLY ASH REINJECTION					
- NO. WITH MECHANICAL PRECIPITATORS					
- NO. WITH ELECTROSTATIC PRECIPITATORS	11	5	2	2	2
- NO. WITH COMBINATION PRECIPITATORS					
- NO. WITH DESULFURIZATION SYSTEMS					
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER	16.00 25.00	18.00 22.00	20.00	10.00 15.00	20.00 25.00
MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH					
TESTED, LOW - HIGH					
ESTIMATED, LOW - HIGH					
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	96.00 98.00	98.00 98.50	95.00	97.40 99.00	92.00 95.00
TESTED, LOW - HIGH	83.50 98.60	97.50 98.70	88.90 99.80	98.60 99.30	93.40 95.80
EST., LOW - HIGH	92.00 98.00		96.00	98.00	
DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH					
TESTED, LOW - HIGH					
ESTIMATED, LOW - HIGH					

PLANT OPERATING DATA AND COST OF EQUIPMENT					
EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	3.62	.76	.56	1.00	.76
SULFUR DIOXIDE (1,000 TONS)	72.79	12.88	3.29	14.38	11.66
NITROGEN OXIDES (1,000 TONS)	34.64	10.01	2.84	10.00	4.42
STACKS: - TOTAL NO.	6	5	2	5	2
- HEIGHT (FEET), LOWEST - HIGHEST	301.00 450.00	292.00 450.00	300.00	185.00 378.00	221.00 246.00
COMBUSTION CYCLE ADDITIVES (1,000 TONS)		58.90	20.60	49.40	25.10
TOTAL ASH: COLLECTED (1,000 TONS)	169.20				
SOLD (1,000 TONS)					
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)					
EQUIVALENT OF ACIO COLLECTED (1,000 TONS)					
ELEMENTAL AND EQUIVALENT OF ACIO SOLD (1,000 TONS)					
INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	7,883.95	3,714.00	502.00	2,100.00	428.00
ELECTROSTATIC PRECIPITATORS (\$1,000)					
COMBINATION PRECIPITATORS (\$1,000)					
DESULFURIZATION SYSTEMS (\$1,000)					
STACKS (\$1,000)	731.00	487.00	82.00	716.00	98.00
ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	715.00	397.00	77.00	510.00	75.00
REVENUES FROM SALE OF ASH (\$1,000)					
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)					
REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)					
TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000)	715.00	397.00	77.00	510.00	75.00
TOTAL BYPRODUCT SALES REVENUES (\$1,000)					

WATER QUALITY CONTROL DATA					
COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	L MICHIGAN	O CHICAGO CANAL	R CALUMET	O CHICAGO CANAL	R ROCK
AVERAGE RATE OF WITHDRAWAL (CFS)	1,282.00	426.00	136.00	667.00	157.00
AVERAGE RATE OF DISCHARGE (CFS)	1,282.00	426.00	136.00	667.00	157.00
AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED	11.03	3.66	1.17	5.74	1.35
PEAK LOAD MONTH: SUMMER - WINTER	JUN JAN	JUN JAN	JUN JAN	JUN JAN	JUN JAN
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	74.00 50.00	74.00 50.00	80.00 52.00	78.00 50.00	87.00 38.00
AT OUTFALL, SUMMER - WINTER	85.00 62.00	84.00 61.00	90.00 64.00	90.00 60.00	102.00 60.00
AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER		1,720.00 529.00	277.00 947.00	1,720.00 529.00	3,300.00 3,200.00
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O/W					
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.48	.36	.04	.74	.36
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	46.11	54.06	9.70	70.33	29.72
LIME (TONS), COOLING WATER - BOILER MAKEUP					16.75
ALUM (TONS), COOLING WATER - BOILER MAKEUP		4.35	.40	4.73	3.23
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	59.93	98.06	25.50	209.09	14.87
OTHER IYES/NOI, COOLING WATER - BOILER MAKEUP					
SEWAGE DISPOSAL: METHOOL, PS, ST, SW, OTW	PS	PS	PS	PS	PS
RECEIVING WATER BODY					
POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	9.80 7.30	10.50 7.80	10.80 7.80	9.40 7.70	10.80 8.10
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	3.00 80.00	3.00 8.00	3.00 20.00	3.00 50.00	3.00 2.40
VOLUME (1,000 CU.FT/YR), BOILER BLOWDOWN - ASH SETTLING	203.00 314.00		58.00	504.00	260.00
	87,894.00	36,267.00	13,800.00	10,400.00	9,500.00

COOLING FACILITY DATA					
NO. OF UNITS AND CAPACITY (MM) USING: ONCE THROUGH COOLING (FRESH)	4 972.00	3 572.00	3 175.00	3 701.00	2 119.00
ONCE THROUGH COOLING (SALINE)					
COOLING PONDS					
COOLING TOWERS					
COMBINATIONS					
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1929 1962	1914 1959	1923 1947	1928 1961	1945 1953
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST	8.50 12.20	10.60 13.90	8.30 11.10	8.20 13.50	11.80 14.70
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	1,850.00	931.00	534.00	1,255.00	237.00
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	1,850.00	931.00	534.00	1,255.00	237.00

CAPITAL COSTS OF COOLING FACILITIES					
ONCE THROUGH COOLING SYSTEMS (\$1,000)	2,252.00	3,538.00	722.00	2,650.00	571.00
COOLING PONDS (\$1,000)					
COOLING TOWERS (\$1,000)					

ANNUAL COOLING WATER EXPENSES					
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	54.00	75.00	28.00	63.00	37.00
COST OF CHEMICAL ADDITIVES (\$1,000)	6.00	21.00		38.00	3.00

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES					
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	235.00	118.00	72.00	114.00	59.00
COST OF CHEMICAL ADDITIVES (\$1,000)	11.00	15.00	4.00	19.00	2.00

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10. INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	COMMONWEALTH	COMMONWEALTH	COMMONWEALTH	COMMONWEALTH	COMMONWEALTH
2		2	EDISON CO.	EDISON CO.	EDISON CO.	EDISON CO.	EDISON CO.
3		3					
4	NAME OF PLANT	4	ORESEN	FORHAM	JOLIET	KINCAID	POWERTON
5	UTILITY-PLANT CODE	5	111500-0500	111500-0700	111500-1000	111500-1100	111500-1300
6	STATE	6	ILLINOIS	ILLINOIS	ILLINOIS	ILLINOIS	ILLINOIS
7	COUNTY	7	GRAND	WINNEBAGO	WILL	CHRISTIAN	TAZEWELL
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	8	067 07	073 07	067 07	075 07	065 07
9	PLANT CAPACITY (MM)	9	1,829.00	75.00	1,787.00	1,319.00	320.00
10	ANNUAL GENERATION (MWH) 3/	10	4,373,500	210,800	7,397,500	5,355,600	862,600
11	PLANT HEAT RATE (BTU/KWH) 3/	11	11,474	17,317	10,140	11,315	15,034
AIR QUALITY CONTROL DATA							
FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)	12		78.00	3,230.00	2,904.00	646.00
13	AVERAGE HEAT CONTENT (BTU/LB)	13		11,583	10,391	9,706	9,948
14	AVERAGE SULFUR CONTENT (%)	14		1.86	2.95	4.02	3.98
15	AVERAGE ASH CONTENT (%)	15		12.86	12.52	15.30	14.09
16	AVERAGE MOISTURE CONTENT (%)	16		7.09	13.32	15.45	14.88
17	OIL: CONSUMPTION (1,000 BARRELS)	17					15.40
18	AVERAGE HEAT CONTENT (BTU/GAL)	18					137,961
19	AVERAGE SULFUR CONTENT (%)	19					.50
20	GAS: CONSUMPTION (1,000 MCF)	20		1,772.10	11,667.20	122.40	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21		1,038	1,033	988	
PLANT EQUIPMENT DATA							
22	BOILERS: - TOTAL NO.	22		8	9	2	12
23	- NO. OF WET BOTTOM	23			5	2	9
24	- NO. WITH FLY ASH REINJECTION	24				2	
25	- NO. WITH MECHANICAL PRECIPITATORS	25		3			
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26					
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27			7	2	
28	- NO. WITH DESULFURIZATION SYSTEMS	28					
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29		25.00	28.00	16.00	20.00
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30		92.00			
31	TESTED, LOW - HIGH	31					
32	ESTIMATED, LOW - HIGH	32		90.00			
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/ DESIGN, LOW - HIGH	33			98.00	99.00	98.00
34	TESTED, LOW - HIGH	34			95.70	97.50	94.60
35	EST., LOW - HIGH	35			98.00	99.00	98.00
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36					
37	TESTED, LOW - HIGH	37					
38	ESTIMATED, LOW - HIGH	38					
PLANT OPERATING DATA AND COST OF EQUIPMENT							
39	EST. TOTAL ANNUAL PLANT EMISSIONS 7/ PARTICULATE MATTER (1,000 TONS)	39		2.82	4.21	1.72	61.72
40	SULFUR DIOXIDE (1,000 TONS)	40		2.84	186.76	228.81	50.42
41	NITROGEN OXIDES (1,000 TONS)	41		.93	50.14	79.88	9.18
42	STACKS: - TOTAL NO.	42		4	6	2	3
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	43					
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	44		222.00	237.00	248.00	550.00
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	45			28.20	402.30	442.60
46	SOLO (1,000 TONS) 11/	46					41.00
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47					
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	48					
49	ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	49					
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50		66.00			
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51			7,854.00	4,342.00	
52	COMBINATION PRECIPITATORS (\$1,000) 13/	52					
53	DESULFURIZATION SYSTEMS (\$1,000)	53					
54	STACKS (\$1,000)	54		110.00	1,387.00	950.00	1,337.00
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55		64.00	1,127.00	1,018.00	160.00
56	REVENUES FROM SALE OF ASH (\$1,000)	56					
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57					
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58					
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 14/	59		64.00	1,127.00	1,018.00	160.00
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60					
WATER QUALITY CONTROL DATA							
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R ILLINOIS	R ROCK	R OES PLAINES	O LOCAL RUNOFF	R ILLINOIS
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	866.00	86.00	1,714.00	57.30	464.00
63	AVERAGE RATE OF DISCHARGE (CFS)	63	866.00	86.00	1,714.00	28.50	464.00
64	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 15/	64		.74	14.74	28.80	3.99
65	PEAK LOAD MONTH: SUMMER - WINTER 16/	65	JUN 92.00 JAN 38.00	JUN 91.00 JAN 32.00	JUN 92.00 JAN 58.00	JUN 87.00 JAN 43.00	JUN 86.00 JAN 43.00
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	104.00 54.00	103.00 48.00	102.00 72.00	99.00 55.00	103.00 63.00
67	AT OUTFALL, SUMMER - WINTER	67					
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68	6,111.00	2,677.00	5,069.00		10,200.00
69	- WINTER	69	4,560.00	2,221.00	2,323.00		8,150.00
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OR 17/	70					
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71					
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	1.25	.08	1.89		1.13
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73	162.31	353.45	194.95	184.31	41.71
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74				221.49	
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	208.57		631.22	71.47	178.48
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76	YES	YES	YES	YES	YES
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	77	OT R ILLINOIS	PS	OT R OES PLAINES	OT L KINCAID	OT R ILLINOIS
78	RECEIVING WATER BODY	78					
79	POND DISCHARGE 19/	79	11.00	8.10	10.30	7.90	10.80
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80	3.00		3.00	1.50	3.00
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81		10.00	1,786.00		24.00
82	- ASH SETTLING	82		15,800.00	30,000.00	817,000.00	27,027.00
COOLING FACILITY DATA							
83	NO. OF UNITS AND CAPACITY (MM) USING 20/	83	1 209.00	6 75.00	8 1,862.00		4 320.00
84	ONCE THROUGH COOLING (FRESH)	84				2 1,320.00	
85	ONCE THROUGH COOLING (SALINE)	85					
86	COOLING PONDS 21/	86					
87	COMBINATIONS 22/	87	2 1,620.00	1916 1947	1917 1966	1967 1968	1928 1940
88	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 23/	88	18.70 22.80	20.30	8.00 10.00	22.50	8.70
89	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	89	2,608.00	196.00	3,301.00	1,070.00	1,090.00
90	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	90	2,654.00	205.00	3,145.00	1,070.00	1,090.00
CAPITAL COSTS OF COOLING FACILITIES							
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	11,623.00	412.00	5,805.00	2,675.00	2,313.00
93	COOLING PONDS (\$1,000)	93	25,000.00			3,819.00	
94	COOLING TOWERS (\$1,000)	94					
ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	28.00	11.00	192.00	67.00	23.00
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	6.00		110.00	25.00	12.00
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	256.00	85.00	252.00	126.00	68.00
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	68.00	40.00	61.00	102.00	12.00

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	COMMONWEALTH EDISON CO.	COMMONWEALTH EDISON CO.	COMMONWEALTH EDISON CO.	COMMONWEALTH EDISON CO.	COMMONWEALTH EDISON CO.	1
2		2						2
3		3						3
4	NAME OF PLANT	4	RIOGELAND	SABROOKE	WAUKEGAN	WILL COUNTY	LOROSBURG	4
5	UTILITY-PLANT CODE	5	111500-1400	111500-1500	111500-1600	111500-1700	112000-0400	5
6	STATE	6	ILLINOIS	ILLINOIS	ILLINOIS	ILLINOIS	NEW MEXICO	6
7	COUNTY	7	COOK	WINNEBAGO	LAKE	WILL	HIOALGO	7
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	8	067 07	073 07	067 04	067 07	012 15	8
9	PLANT CAPACITY (MW)	9	690.00	146.00	1,043.00	1,269.00	41.50	9
10	ANNUAL GENERATION (MMH) 3/	10	3,607,200	882,000	5,210,800	6,178,300	184,932	10
11	PLANT HEAT RATE (BTU/KWH) 4/	11	10,690	11,595	10,543	9,847	12,859	11
AIR QUALITY CONTROL DATA								
FUEL CONSUMPTION DATA (ANNUAL)								
12	COAL: CONSUMPTION (1,000 TONS)	12	11.00	245.00	2,153.00	3,079.00		12
13	AVERAGE HEAT CONTENT (BTU/LB)	13	9,023	11,466	10,598	9,756		13
14	AVERAGE SULFUR CONTENT (%)	14	1.28	1.69	2.45	2.58		14
15	AVERAGE ASH CONTENT (%)	15	9.14	12.58	9.06	10.69		15
16	AVERAGE MOISTURE CONTENT (%)	16	23.26	7.91	16.12	19.17		16
17	DIL: CONSUMPTION (1,000 BARRELS)	17	6,158.20		32.50	133.80		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	148,036		137,846	138,234		18
19	AVERAGE SULFUR CONTENT (%)	19	.76		.50	.50		19
20	GAS: CONSUMPTION (1,000 MCF)	20	74.20	4,507.60	8,794.70		2,223.51	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,034	1,038	1,033		1,070	21
PLANT EQUIPMENT DATA								
22	BOILERS: - TOTAL NO.	22	6	4	9	4	3	22
23	- NO. OF WET BOTTOM	23	6					23
24	- NO. WITH FLY ASH REINJECTION	24						24
25	- NO. WITH MECHANICAL PRECIPITATORS	25		3				25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26	6	1	9	4		26
27	- NO. WITH COMBINATION PRECIPITATORS 5/	27						27
28	- NO. WITH DESULFURIZATION SYSTEMS 6/	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 7/	29	10.00 18.00	22.00 27.00	18.00 25.00	10.00 20.00	10.00 12.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30						30
31	TESTED, LOW - HIGH	31		79.10				31
32	ESTIMATED, LOW - HIGH	32						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 8/	33	90.00 98.00	98.00	95.00 98.00	90.00 98.00	98.00	33
34	DESIGN, LOW - HIGH	34	91.00 95.20	61.90	88.70 99.10	91.70		34
35	TESTED, LOW - HIGH	35	90.00 98.00		96.00 98.00	91.00 98.00		35
36	EST., LOW - HIGH	36						36
37	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	37						37
38	TESTED, LOW - HIGH	38						38
39	ESTIMATED, LOW - HIGH	39						39
PLANT OPERATING DATA AND COST OF EQUIPMENT								
39	EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	39	.06	6.43	5.97	4.83		39
40	SULFUR DIOXIDE (1,000 TONS)	40	15.98	8.12	103.44	155.92		40
41	NITROGEN OXIDES (1,000 TONS)	41	13.89	2.86	28.71	44.67	.43	41
42	STACKS: - TOTAL NO.	42	6	2	4	3	3	42
43	- HEIGHT (FEET), LOWEST - HIGHEST 9/	43	213.00	146.00	330.00 450.00	349.00 500.00	55.00 100.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 10/	44		30.00	189.10	401.50		44
45	TOTAL ASH: COLLECTED (1,000 TONS) 11/	45	15.60					45
46	SOLD (1,000 TONS) 12/	46						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 13/	48						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49		98.00				49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50		179.00	6,369.00	3,211.00		50
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51	1,591.00					51
52	COMBINATION PRECIPITATORS (\$1,000) 14/	52						52
53	DESULFURIZATION SYSTEMS (\$1,000)	53						53
54	STACKS (\$1,000)	54	860.00	106.00	893.00	1,083.00	44.80	54
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	199.00	140.00	588.00	897.00		55
56	REVENUES FROM SALE OF ASH (\$1,000)	56						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						58
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 15/	59	199.00	140.00	588.00	897.00		59
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60						60
WATER QUALITY CONTROL DATA								
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	O CHICAGO CANAL	R ROCK	L MICHIGAN	O CHICAGO CANAL	W	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	848.00	183.00	1,153.00	1,217.00	1.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	848.00	183.00	1,153.00	1,217.00		63
64	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 16/	64	7.29	1.57	9.92	10.47	.85	64
65	PEAK LOAD MONTH: SUMMER - WINTER 17/	65	JUN	JUN	JUN	JUN	JUL	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	83.00 60.00	90.00 42.00	69.00 49.00	79.00 55.00		66
67	AT OUTFALL, SUMMER - WINTER	67	93.00 70.00	104.00 68.00	80.00 57.00	91.00 67.00		67
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68	2,987.00	2,677.00		4,902.00		68
69	- WINTER	69	1,606.00	2,221.00		2,033.00		69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D 18/	70						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71		.82	.33	.68		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72		70.04	65.40	152.08		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73						73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	235.93		54.00	624.10		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76	PS	YES	PS	YES	PS	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 19/	77	PS	PS	PS	OT	PS	77
78	RECEIVING WATER BODY	78				R OES PLAINES		78
79	POND DISCHARGE 20/	79	10.40 7.40	11.00 4.00	10.20 7.70	9.70 7.70		79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80	3.00 45.00	3.00	3.00 25.00	3.00 40.00		80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	81	321.00	34.00	1,833.00	800.00		81
82		82	525,500.00	8,000.00	244,000.00	18,484.00		82
COOLING FACILITY DATA								
83	NO. OF UNITS AND CAPACITY (MM) USING: ONCE THROUGH COOLING (FRESH)	83	4 692.00	4 147.00	7 1,042.00	4 1,269.00		83
84	ONCE THROUGH COOLING (SALINE)	84						84
85	COOLING PONDS (S)	85					3 38.50	85
86	COOLING TOWERS (S)	86						86
87	COMBINATIONS 21/	87						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1950 1955	1949 1961	1923 1962	1955 1963	1963 1967	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	89	8.30 11.70	20.20	10.50 15.20	8.90 12.10	21.00 23.10	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	1,336.00	213.00	1,948.00	2,000.00	79.03	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91		280.00	1,948.00	2,000.00		91
CAPITAL COSTS OF COOLING FACILITIES								
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	4,401.00	1,106.00	4,859.00	5,126.00		92
93	COOLING PONDS (\$1,000)	93					236.74	93
94	COOLING TOWERS (\$1,000)	94						94
ANNUAL COOLING WATER EXPENSES								
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	142.00	13.00	102.00	164.00	.40	95
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	50.00	1.00	4.00	105.00	8.00	96
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES								
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	176.00	83.00	111.00	193.00	1.00	97
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	11.00	11.00	31.00	32.00	5.70	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	CONN YANKEE	CONSOLIDATED	CONSOLIDATED	CONSOLIDATED	CONSOLIDATED	1
2		2	ATOMIC PWR CO.	EDISON CO. OF NY	EDISON CO. OF NY	EDISON CO. OF NY	EDISON CO. OF NY	2
3		3						3
4	NAME OF PLANT	4	HA00AM	59TH STREET	74TH STREET	ARTHUR KILL	ASTORIA	4
5	UTILITY-PLANT CODE	5	112500-0100	113000-0100	113000-0200	113000-0300	113000-0400	5
6	STATE	6	CONNECTICUT	NEW YORK	NEW YORK	NEW YORK	NEW YORK	6
7	COUNTY	7	MIDDLESEX	NEW YORK	NEW YORK	RICHMOND	QUEENS	7
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	8	042 01	043 02	043 02	043 02	043 02	8
9	PLANT CAPACITY (MW)	9	575.00	184.50	269.00	911.70	1,550.60	9
10	ANNUAL GENERATION (MWH) 3/	10	4,187,400	586,100	516,200	3,289,700	6,144,600	10
11	PLANT HEAT RATE (BTU/KWH) 3/	11	10,975	16,051	15,468	10,553	10,831	11
AIR QUALITY CONTROL DATA								
FUEL CONSUMPTION DATA (ANNUAL)								
12	COAL: CONSUMPTION (1,000 TONS)	12				802.90	444.30	12
13	AVERAGE HEAT CONTENT (BTU/LB)	13				12,032	12,325	13
14	AVERAGE SULFUR CONTENT (%)	14				.90	.88	14
15	AVERAGE ASH CONTENT (%)	15				12.47	12.89	15
16	AVERAGE MOISTURE CONTENT (%)	16				7.81	6.43	16
17	OIL: CONSUMPTION (1,000 BARRELS)	17		1,535.50	1,299.80	2,534.10	6,891.40	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18		145,780	146,263	144,662	145,156	18
19	AVERAGE SULFUR CONTENT (%)	19		.80	.85	.61	.41	19
20	GAS: CONSUMPTION (1,000 MCF)	20		6.00			13,182.80	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21		1,030			1,031	21
PLANT EQUIPMENT DATA								
22	BOILERS: - TOTAL NO.	22		6	3	2	5	22
23	- NO. OF WET BOTTOM	23						23
24	- NO. WITH FLY ASH REINJECTION	24						24
25	- NO. WITH MECHANICAL PRECIPITATORS	25						25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26				1		26
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27				1	5	27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29		7.00	15.00	25.00	25.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30						30
31	TESTED, LOW - HIGH	31						31
32	ESTIMATED, LOW - HIGH	32						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/:	33				99.00	99.50	33
34	DESIGN, LOW - HIGH	34						34
35	TESTED, LOW - HIGH	35						35
36	EST., LOW - HIGH	36						36
37	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	37						37
38	TESTED, LOW - HIGH	38						38
39	EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	39		.26	.22	.43	.51	39
40	SULFUR DIOXIDE (1,000 TONS)	40		4.12	3.71	19.35	17.14	40
41	NITROGEN OXIDES (1,000 TONS)	41		3.39	2.67	12.81	21.77	41
42	STACKS: - TOTAL NO.	42		3	1	8	8	42
43	- HEIGHT (FEET), LOWEST - HIGHEST 7/	43		245.85	528.35	518.90	315.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 8/	44					.09	44
45	TOTAL ASH: COLLECTED (1,000 TONS) 9/	45					18.60	45
46	SOLO (1,000 TONS) 10/	46						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 11/	48						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	49						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50				1,996.00		50
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51				2,277.00	8,212.00	51
52	COMBINATION PRECIPITATORS (\$1,000) 4/	52						52
53	DESULFURIZATION SYSTEMS (\$1,000)	53						53
54	STACKS (\$1,000)	54		1,297.00	1,188.40	808.50	1,315.20	54
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55				101.80	80.70	55
56	REVENUES FROM SALE OF ASH (\$1,000)	56						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						58
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 12/	59				265.30	263.00	59
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60						60
WATER QUALITY CONTROL DATA								
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R CONNECTICUT	R HUDSON	R EAST	B LOWER NY	R EAST	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	870.00	179.00	310.00	798.00	1,570.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	870.00	179.00	310.00	798.00	1,570.00	63
64	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 13/	64	7.48	1.54	2.67	6.86	13.50	64
65	PEAK LOAD MONTH: SUMMER - WINTER	65	AUG JAN	JUL DEC	JUL DEC	JUL DEC	JUL DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	80.00 43.00	80.00 54.00	74.00 48.00	83.00 60.00	80.00 57.00	66
67	AT OUTFALL, SUMMER - WINTER	67	100.50 64.75	92.00 63.00	77.00 53.00	92.00 72.00	90.00 67.00	67
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	68	5,890.00					68
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O 14/	69	8,810.00					69
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70						70
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71	.98	4.85	.50	1.50	3.00	71
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	72		40.50	129.00	48.50	17.00	72
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	73						73
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74						74
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75						75
76	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 15/	76	YES YES	YES YES	YES YES	92.50 YES	100.50 YES	76
77	RECEIVING WATER BODY	77	ST					77
78	POND DISCHARGE 16/	78						78
79	BOILER BLOWDOWN - ASH SETTLING	79						79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80						80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	81						81
82		82						82
COOLING FACILITY DATA								
83	NO. OF UNITS AND CAPACITY (TWH) USING: ONCE THROUGH COOLING (FRESH)	83	1 600.00	5 187.00	5 269.00	2 850.00	5 1,560.00	83
84	ONCE THROUGH COOLING (SALINE)	84						84
85	COOLING PONDS (S)	85						85
86	COOLING TOWERS (S)	86						86
87	COMBINATIONS 17/	87						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1965	1918 1968	1915 1962	1959 1969	1953 1962	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 18/	89	22.00	7.00	7.00	13.00	13.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	830.00	589.00	760.00	1,010.00	2,718.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	870.00	589.00		1,010.00	2,108.00	91
CAPITAL COSTS OF COOLING FACILITIES								
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	1.56	860.20	972.32	2,676.03	4,618.59	92
93	COOLING PONDS (\$1,000)	93						93
94	COOLING TOWERS (\$1,000)	94						94
ANNUAL COOLING WATER EXPENSES								
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	10.40	128.90	93.50	96.30	260.60	95
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	15.60	8.10	7.10	21.50	46.00	96
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES								
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	8.30	159.30	121.40	164.40	933.00	97
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	9.20	15.10	27.00	11.70	11.50	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

NAME OF UTILITY	CONSOLIDATED EISON CO. OF NY	CONSOLIDATED EISON CO. OF NY	CONSOLIDATED EISON CO. OF NY	CONSOLIDATED EISON CO. OF NY	CONSOLIDATED EISON CO. OF NY
NAME OF PLANT	EAST RIVER	HELL GATE	HUOSON AVENUE	INDIAN POINT	KENT AVENUE
UTILITY-PLANT CODE	113000-0500	113000-0600	113000-0700	113000-0800	113000-0900
STATE	NEW YORK	NEW YORK	NEW YORK	NEW YORK	NEW YORK
COUNTY	NEW YORK	BRONX	KINGS	WESTCHESTER	KINGS
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	043 02	043 02	043 02	043 02	043 02
PLANT CAPACITY (MW)	833.65	511.25	765.00	275.00	107.50
ANNUAL GENERATION (MWH) 3/	2,739,100	1,650,000	1,745,000	327,800	107,100
PLANT HEAT RATE (BTU/KWH) 4/	14,245	17,331	17,601	12,651	21,642

AIR QUALITY CONTROL DATA					
FUEL CONSUMPTION DATA (ANNUAL)					
COAL: CONSUMPTION (11,000 TONS)					
AVERAGE HEAT CONTENT (BTU/LB)					
AVERAGE SULFUR CONTENT (%)					
AVERAGE ASH CONTENT (%)					
AVERAGE MOISTURE CONTENT (%)					
OIL: CONSUMPTION (1,000 BARRELS)					
AVERAGE HEAT CONTENT (BTU/GAL)					
AVERAGE SULFUR CONTENT (%)					
GAS: CONSUMPTION (1,000 MCF)					
AVERAGE HEAT CONTENT (BTU/CU.FT.)					

PLANT EQUIPMENT DATA					
BOILERS: - TOTAL NO.	12	19	24	2	3
- NO. OF WET BOTTOM					
- NO. WITH FLY ASH REINJECTION					
- NO. WITH MECHANICAL PRECIPITATORS					
- NO. WITH ELECTROSTATIC PRECIPITATORS					
- NO. WITH COMBINATION PRECIPITATORS 4/					
- NO. WITH DESULFURIZATION SYSTEMS					
- EXCESS AIR USED (11), LOWEST BOILER - HIGHEST BOILER 5/					
MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH					
TESTED, LOW - HIGH					
ESTIMATED, LOW - HIGH					
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/					
DESIGN, LOW - HIGH					
TESTED, LOW - HIGH					
EST., LOW - HIGH					
DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH					
TESTED, LOW - HIGH					
ESTIMATED, LOW - HIGH					

PLANT OPERATING DATA AND COST OF EQUIPMENT					
EST. TOTAL ANNUAL PLANT EMISSIONS 7/					
PARTICULATE MATTER (1,000 TONS)					
SULFUR DIOXIDE (1,000 TONS)					
NITROGEN OXIDES (1,000 TONS)					
STACKS: - TOTAL NO.					
- HEIGHT (FEET), LOWEST - HIGHEST 8/					
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/					
TOTAL ASH: COLLECTED (1,000 TONS) 10/					
SOLO (1,000 TONS) 11/					
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)					
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/					
ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)					
INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)					
ELECTROSTATIC PRECIPITATORS (\$1,000)					
COMBINATION PRECIPITATORS (\$1,000) 4/					
DESULFURIZATION SYSTEMS (\$1,000)					
STACKS (\$1,000)					
ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)					
REVENUES FROM SALE OF ASH (\$1,000)					
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)					
REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)					
TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/					
TOTAL BYPRODUCT SALES REVENUES (\$1,000)					

WATER QUALITY CONTROL DATA					
COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R EAST	R EAST	R EAST	R HUOSON	R EAST
AVERAGE RATE OF WITHDRAWAL (CF5)	1,100.00	628.00	625.00	625.00	65.00
AVERAGE RATE OF DISCHARGE (CF5)	1,100.00	628.00	625.00	625.00	65.00
AVERAGE RATE OF CONSUMPTION (CF5), CALCULATED - REPORTED 14/	9.46	5.40	5.38	5.38	5.56
PEAK LOAD MONTH: SUMMER - WINTER 15/	JUL	JUL	JUL	JUL	JUL
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT OVERFLOW, SUMMER - WINTER	74.00	77.00	76.00	78.00	74.00
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CF5): SUMMER - WINTER	85.00	90.00	89.00	84.00	88.00
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OIL					
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP					
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP					
LIME (TONS), COOLING WATER - BOILER MAKEUP					
ALUM (TONS), COOLING WATER - BOILER MAKEUP					
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP					
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	100.50	103.00	58.50	YES	YES
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 16/				ST	
RECEIVING WATER BODY					
POND DISCHARGE 17/					
BOILER BLOWDOWN - ASH SETTLING					
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING					
VOLUME (1,000 CU.FT./YR), BOILER BLOWDOWN - ASH SETTLING					

COOLING FACILITY DATA					
NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	6	8	8	1	4
ONCE THROUGH COOLING (ISALINE)					
COOLING PONDS (S)					
COOLING TOWERS (S)					
COMBINATIONS 22/					
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1927	1921	1924	1962	1920
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 23/	15.00	12.00	12.00	14.00	10.00
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CF5)	1,550.00	1,575.00	2,069.98	695.00	313.00
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CF5)	1,550.00	1,575.00	2,330.00	695.00	

CAPITAL COSTS OF COOLING FACILITIES					
ONCE THROUGH COOLING SYSTEMS (\$1,000)	6,389.41	1,073.92	1,624.39	4,979.47	374.70
COOLING PONDS (\$1,000)					
COOLING TOWERS (\$1,000)					

ANNUAL COOLING WATER EXPENSES					
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	86.30	38.80	129.30	63.10	12.80
COST OF CHEMICAL ADDITIVES (\$1,000)	23.00	24.00	11.00	2.90	.90

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES					
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	237.00	118.20	241.00	74.20	27.20
COST OF CHEMICAL ADDITIVES (\$1,000)	66.60	9.50	26.30	8.20	6.90

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	CONSOLIDATED EDISON CO. OF NY	CONSOLIDATED EDISON CO. OF NY	CONSOLIDATED EDISON CO. OF NY	CONSUMERS POWER CO.	CONSUMERS POWER CO.	1		
2		2						2		
3		3						3		
4	NAME OF PLANT	4	RAVENSWOOD	SHERMAN CREEK	WATERSIDE	CORR	MORROW	4		
5	UTILITY-PLANT CODE	5	113000-1000	113000-1100	113000-1200	114500-0400	114500-0500	5		
6	STATE	6	NEW YORK	NEW YORK	NEW YORK	MICHIGAN	MICHIGAN	6		
7	COUNTY	7	QUEENS	NEW YORK	NEW YORK	MUSKEGON	KALAMAZOO	7		
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	8	043 02	043 02	043 02	122 04	125 04	8		
9	PLANT CAPACITY (MW)	9	1,827.70	216.50	712.25	510.50	186.00	9		
10	ANNUAL GENERATION (MWH) 3/	10	7,971,900	181,400	2,074,500	3,244,400	962,500	10		
11	PLANT HEAT RATE (BTU/KWH) 3/	11	9,819	22,229	14,548	10,783	13,089	11		
AIR QUALITY CONTROL DATA										
FUEL CONSUMPTION DATA (ANNUAL)										
12	COAL: CONSUMPTION (1,000 TONS)	12	11.70			1,534.00		12		
13	AVERAGE HEAT CONTENT (BTU/LB)	13	12,445			11,406		13		
14	AVERAGE SULFUR CONTENT (%)	14	.80			2.85		14		
15	AVERAGE ASH CONTENT (%)	15	9.50			10.45		15		
16	AVERAGE MOISTURE CONTENT (%)	16	9.50			10.92		16		
17	OIL: CONSUMPTION (1,000 BARRELS)	17	11,698.50	637.00	3,271.20	13.20	623.50	17		
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	146,093	145,756	145,871	140,000	150,000	18		
19	AVERAGE SULFUR CONTENT (%)	19	.83	.71	.92	.48	1.00	19		
20	GAS: CONSUMPTION (1,000 MCF)	20	6,017.40	125.80	12,676.60		8,492.30	20		
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,031	1,030	1,031		1,021	21		
PLANT EQUIPMENT DATA										
22	BOILERS: - TOTAL NO.	22	4	2	10	5	4	22		
23	- NO. OF WET BOTTOM	23						23		
24	- NO. WITH FLY ASH REINJECTION	24						24		
25	- NO. WITH MECHANICAL PRECIPITATORS	25					4	25		
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26						26		
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27				5		27		
28	- NO. WITH DESULFURIZATION SYSTEMS	28	2					28		
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	10.00 25.00	20.00	20.00	15.00 18.00	20.00	29		
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30					80.00 81.00	30		
31	TESTED, LOW - HIGH	31					80.00 81.00	31		
32	ESTIMATED, LOW - HIGH	32						32		
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/ DESIGN, LOW - HIGH	33	99.00			99.00	99.45	33		
34	TESTED, LOW - HIGH	34				99.00	99.00	34		
35	EST., LOW - HIGH	35						35		
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36						36		
37	TESTED, LOW - HIGH	37						37		
38	ESTIMATED, LOW - HIGH	38						38		
PLANT OPERATING DATA AND COST OF EQUIPMENT										
39	EST. TOTAL ANNUAL PLANT EMISSIONS 25/	39	1.07	.11	.55	1.18	.02	39		
40	PARTICULATE MATTER (1,000 TONS)	40	32.76	1.52	10.09	85.70	2.09	40		
41	SULFUR DIOXIDE (1,000 TONS)	41	27.07	1.43	9.68	13.83	3.03	41		
42	NITROGEN OXIDES (1,000 TONS)	42	3	1	3	5	2	42		
43	STACKS: - TOTAL NO.	43	515.00	335.50	479.00	250.00	300.00	43		
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 8/	44			.02			44		
45	TOTAL ASH: COLLECTED (1,000 TONS) 9/	45	1.00			158.00		45		
46	SOLO (1,000 TONS) 10/	46				33.30		46		
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47		
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 11/	48						48		
49	ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	49						49		
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50					100.60	50		
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51				3,640.00		51		
52	COMBINATION PRECIPITATORS (\$1,000) 4/	52	10,300.00					52		
53	DESULFURIZATION SYSTEMS (\$1,000)	53						53		
54	STACKS (\$1,000)	54	1,516.70	29.50	598.40	276.00	100.00	54		
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	104.30			132.00		55		
56	REVENUES FROM SALE OF ASH (\$1,000)	56				3.10		56		
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						57		
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						58		
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 12/	59	142.70			134.00		59		
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60				3.10		60		
WATER QUALITY CONTROL DATA										
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R EAST	R HARLEM	R EAST	L MUSKEGON	R KALAMAZOO	61		
62	AVERAGE RATE OF WITHDRAWAL (CF5)	62	1,454.00	120.00	713.00	690.00	590.00	62		
63	AVERAGE RATE OF DISCHARGE (CF5)	63	1,454.00	120.00	713.00	690.00	590.00	63		
64	AVE. RATE OF CONSUMPTION (CF5), CALCULATED - REPORTED 13/	64	12.50	1.03	6.13	5.93	5.07	64		
65	PEAK LOAD MONTH: JUL DEC	65	JUL DEC	JUL DEC	JUL DEC	JUN DEC	JUN DEC	65		
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	75.00 53.00	79.00 50.00	74.00 50.00	84.00 43.00	83.00 38.00	66		
67	AT OUTFALL, SUMMER - WINTER	67	89.00 65.00	91.00 66.00	86.00 58.00	102.00 66.00	114.00 82.00	67		
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CF5): SUMMER - WINTER	68					383.00	68		
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OIB/	69					688.00	69		
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS)	70						70		
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71	3.50	9.50	22.50	.31	1.68	71		
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	72	87.50	2.90	1,118.00	50.46	.02	72		
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	73				16.88	11.70	73		
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74	400.50	3.25	122.50	98.98	31.92	74		
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75	YES	YES	YES	YES	YES	75		
76	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 14/	76				ST	ST	76		
77	RECEIVING WATER BODY	77					R KALAMAZOO	77		
78	POND DISCHARGE 15/	78						78		
79	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79				10.50	7.70	79		
80	VOLUME (1,000 CU.FT./YR), BOILER BLOWDOWN - ASH SETTLING	80				10.00	3.00	80		
81	- ASH SETTLING	81					15.00	81		
82		82				35,133.69		82		
COOLING FACILITY DATA										
83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	83				5	510.50	4	186.00	83
84	ONCE THROUGH COOLING (SALINE)	84	3	1,720.00	6	216.50	13	713.00		84
85	COOLING PONDS (S)	85								85
86	COOLING TOWER(S)	86								86
87	COMBINATIONS 16/	87								87
88	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 17/	88	1963 1965	1915 1947	1919 1940	1948 1957	1939 1949			88
89	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CF5)	89	15.00	10.00	10.00	11.68	16.50	15.00	16.50	89
90	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CF5)	90	2,149.00	782.00	870.00	903.00	404.00	405.00	90	90
91		91	2,149.00	391.00		903.00				91
CAPITAL COSTS OF COOLING FACILITIES										
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	9,121.50	385.16	1,349.80					92
93	COOLING PONDS (\$1,000)	93								93
94	COOLING TOWERS (\$1,000)	94								94
ANNUAL COOLING WATER EXPENSES										
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	258.00	77.60	240.00	.10	25.60			95
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	94.00	.80	29.00	4.50	1.35			96
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES										
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	164.00	56.50	355.30	.70	7.00			97
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	20.40	3.00	208.10	21.50	7.18			98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

NAME OF UTILITY	1	CONSUMERS POWER CO.	CONSUMERS POWER CO.	CONSUMERS POWER CO.	CONSUMERS POWER CO.	CONSUMERS POWER CO.	1
NAME OF PLANT	2	BIG ROCK POINT	KARN	ELM STREET	CAMPBELL	SAGINAW RIVER	2
UTILITY-PLANT CODE	3	114500-0600	114500-1200	114500-1300	114500-1900	114500-2500	3
STATE	4	MICHIGAN	MICHIGAN	MICHIGAN	MICHIGAN	MICHIGAN	4
COUNTY	5	CHARLEVOIX	BAY	CALHOUN	OTTAWA	SAGINAW	5
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	126	04	125	04	122	04
PLANT CAPACITY (MM)	7	368,900	3,558,200	98,300	3,316,700	95,300	8
ANNUAL GENERATION (MMH) 3/	8	11,152	9,083	15,614	9,024	24,181	9
PLANT HEAT RATE (BTU/KWH) 4/	9						10
AIR QUALITY CONTROL DATA							
FUEL CONSUMPTION DATA (ANNUAL)							
COAL: CONSUMPTION (1,000 TONS)	12	1,426.64	58.32	1,341.00	97.44	12	
AVERAGE HEAT CONTENT (BTU/LB)	13	11,300	13,111	11,152	11,827	13	
AVERAGE SULFUR CONTENT (%)	14	2.10	1.00	3.39	1.50	14	
AVERAGE ASH CONTENT (%)	15	12.55	7.00	15.85	12.98	15	
AVERAGE MOISTURE CONTENT (%)	16	8.70	5.92	8.17	7.62	16	
DIL: CONSUMPTION (1,000 BARRELS)	17	140,000	137,000	140,000		17	
AVERAGE HEAT CONTENT (BTU/GAL)	18					18	
AVERAGE SULFUR CONTENT (%)	19					19	
GAS: CONSUMPTION (1,000 MCF)	20					20	
AVERAGE HEAT CONTENT (BTU/CU.FT.)	21					21	
PLANT EQUIPMENT DATA							
BOILERS: - TOTAL NO.	22	2	1	2	10	22	
- NO. OF WET BOTTOM	23					23	
- NO. WITH FLY ASH REINJECTION	24					24	
- NO. WITH MECHANICAL PRECIPITATORS	25	2	1	2		25	
- NO. WITH ELECTROSTATIC PRECIPITATORS	26					26	
- NO. WITH COMBINATION PRECIPITATORS 5/	27					27	
- NO. WITH DESULFURIZATION SYSTEMS	28					28	
- EXCESS AIR USED (%) LOWEST BOILER - HIGHEST BOILER 6/	29	17.00	4.50	18.00	30.00	29	
MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30		80.00			30	
TESTED, LOW - HIGH	31		80.00			31	
ESTIMATED, LOW - HIGH	32					32	
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 7/ DESIGN, LOW - HIGH	33	66.90	95.00	95.00	98.00	33	
TESTED, LOW - HIGH	34		89.30	87.90	93.30	34	
EST., LOW - HIGH	35		85.00	92.00	93.00	35	
DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36					36	
TESTED, LOW - HIGH	37					37	
ESTIMATED, LOW - HIGH	38					38	
PLANT OPERATING DATA AND COST OF EQUIPMENT							
EST. TOTAL ANNUAL PLANT EMISSIONS 8/ PARTICULATE MATTER (1,000 TONS)	39	19.53	4.69	13.51	8.22	39	
SULFUR DIOXIDE (11,000 TONS)	40	58.75	1.14	89.12	2.86	40	
NITROGEN OXIDES (1,000 TONS)	41	12.87	0.53	12.11	0.73	41	
STACKS: - TOTAL NO.	42	1	2	1	3	42	
- HEIGHT (FEET), LOWEST - HIGHEST 9/	43	240.00	350.00	255.50	256.50	43	
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 10/	44					44	
TOTAL ASH: COLLECTED (1,000 TONS) 11/	45	160.80	3.30	196.50	10.30	45	
SOLO (1,000 TONS) 12/	46	67.70		6.50	2.50	46	
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47					47	
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 13/	48					48	
ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	49					49	
INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50		19.00	970.60		50	
ELECTROSTATIC PRECIPITATORS (\$1,000)	51					51	
COMBINATION PRECIPITATORS (\$1,000) 14/	52					52	
DESULFURIZATION SYSTEMS (\$1,000)	53					53	
STACKS (\$1,000)	54	60.00	522.00	25.00	312.00	54	
ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55		142.00	9.47	268.80	55	
REVENUES FROM SALE OF ASH (\$1,000)	56		20.50		3.60	56	
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57					57	
REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58					58	
TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 15/	59		143.20	9.47	269.50	59	
TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60		20.50		3.60	60	
WATER QUALITY CONTROL DATA							
COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	L MICHIGAN	R SAGINAW	R BATTLE CREEK	L PIGEON	R SAGINAW	61
AVERAGE RATE OF WITHDRAWAL (CFD)	62	113.86	497.30	65.20	502.00	80.00	62
AVERAGE RATE OF DISCHARGE (CFD)	63	113.86	496.80	65.20	502.00	80.00	63
AVERAGE RATE OF CONSUMPTION (CFD), CALCULATED - REPORTED 16/	64	98	4.28	0.56	4.32	0.69	64
PEAK LOAD MONTH 17/	65	JUN	JUN	JUN	JUN	JUN	65
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	58.00	79.00	78.00	75.00	79.00	66
AT OUTFALL, SUMMER - WINTER	67	70.00	92.00	91.00	89.00	93.00	67
AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFD): SUMMER - WINTER	68		58.00	53.00	72.00	700.00	68
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, DIS/	69					1,395.00	69
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70		1.00		0.58	1.72	70
CAUSTIC (C SODA (TONS), COOLING WATER - BOILER MAKEUP	71		281.42				71
LIME (TONS), COOLING WATER - BOILER MAKEUP	72	0.22	44.00				72
ALUM (TONS), COOLING WATER - BOILER MAKEUP	73		3.00				73
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74		10.65	1.05	19.14	6.15	74
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75	0.02	YES	YES	YES	YES	75
SEWAGE DISPOSAL: METHOD (PS, ST, SW, OTW/	76						76
RECEIVING WATER BODY	77	ST MICHIGAN	ST SAGINAW	PS	ST MICHIGAN	ST	77
POND DISCHARGE 18/ PH, BOILER BLOWDOWN - ASH SETTLING	78		10.00	8.00	9.50	7.50	78
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79		5.00	50.00	3.00	12.00	79
VOLUME (1,000 CU.FT/YR), BOILER BLOWDOWN - ASH SETTLING	80					38.00	80
	81						81
	82				316,000.00	25,000.00	82
COOLING FACILITY DATA							
NO. OF UNITS AND CAPACITY (MM) USING 19/ ONCE THROUGH COOLING (FRESH)	83	1	2	1	2	4	83
ONCE THROUGH COOLING (ISALINE)	84	75.00	530.00	30.00	650.00	103.50	84
COOLING POND(S)	85						85
COOLING TOWER(S)	86						86
COMBINATIONS 20/	87						87
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1962	1959	1925	1962	1966	88
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 21/	89	20.00	14.33	13.00	16.67	18.33	89
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFD)	90	104.30	664.00	77.90	668.00	407.00	90
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFD)	91	104.30	664.00	77.90	668.00	407.00	91
CAPITAL COSTS OF COOLING FACILITIES							
ONCE THROUGH COOLING SYSTEMS (\$1,000)	92						92
COOLING PONDS (\$1,000)	93						93
COOLING TOWERS (\$1,000)	94						94
ANNUAL COOLING WATER EXPENSES							
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	21.00	7.40	0.20	10.00	2.90	95
COST OF CHEMICAL ADDITIVES (\$1,000)	96		0.25	0.25	5.90	1.80	96
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	14.00	5.00	0.60	5.00	3.60	97
COST OF CHEMICAL ADDITIVES (\$1,000)	98	0.03	11.90	1.03	4.20	4.80	98

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	CONSUMERS POWER CO.	CONSUMERS POWER CO.	NEBRASKA PUB. PWR. DISTRICT	NEBRASKA PUB. PWR. DISTRICT	DAIRYLAND POWER COOPERATIVE			
2	NAME OF PLANT	2	WEA00CK	WHITING	BLUFFS	SHELOON	ALMA			
3	UTILITY-PLANT CODE	3	114500-2600	114500-2900	115000-1000	115000-1100	126000-0100			
4	STATE	4	MICHIGAN	MICHIGAN	NEBRASKA	NEBRASKA	WISCONSIN			
5	COUNTY	5	8AY	MONROE	SCOTTS BLUFF	LANCASTER	BUFFALO			
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	122 04	124 04	146 10	145 10	126 07			
7	PLANT CAPACITY (MW)	7	614.50	325.00	42.20	228.65	186.25			
8	ANNUAL GENERATION (MMH) 3/	8	3,179,800	2,190,100	162,800	1,034,400	1,107,800			
9	PLANT HEAT RATE (BTU/KWH) 4/	9	11,066	9,937	13,565	10,691	10,421			
AIR QUALITY CONTROL DATA										
FUEL CONSUMPTION DATA (ANNUAL)										
12	COAL: CONSUMPTION (1,000 TONS)	12	1,452.00	983.83		167.69	562.00			
13	AVERAGE HEAT CONTENT (BTU/LB)	13	11,841	11,056		12,200	10,235			
14	AVERAGE SULFUR CONTENT (%)	14	1.60	2.58		3.77	3.15			
15	AVERAGE ASH CONTENT (%)	15	12.58	15.80		13.03	17.16			
16	AVERAGE MOISTURE CONTENT (%)	16	7.58	7.18		5.30	11.02			
17	OIL: CONSUMPTION (1,000 BARRELS)	17	124.00	1.55	1.19		6.85			
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	140,000	140,000	151,900		140,000			
19	AVERAGE SULFUR CONTENT (%)	19	.30	.50	.41		.30			
20	GAS: CONSUMPTION (1,000 MCF)	20			2,202.28	6,966.70				
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21			1,020	1,000				
PLANT EQUIPMENT DATA										
22	BOILERS: - TOTAL NO.	22	8	3	4	2	5			
23	- NO. OF WET BOTTOM	23								
24	- NO. WITH FLY ASH REINJECTION	24								
25	- NO. WITH MECHANICAL PRECIPITATORS	25	8	3		1	5			
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26	2							
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27								
28	- NO. WITH DESULFURIZATION SYSTEMS	28								
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	20.00 25.00	20.00	10.00 15.00	16.00	20.00 25.00			
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30	80.00 91.00	85.00 86.00		75.00	77.00 90.00			
31	TESTED, LOW - HIGH	31								
32	ESTIMATED, LOW - HIGH	32	80.00 81.00	85.00 86.00		75.00	37.50 84.00			
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/	33	99.00							
34	DESIGN, LOW - HIGH	34								
35	TESTED, LOW - HIGH	35								
36	ESTIMATED, LOW - HIGH	36								
37	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	37					70.00			
38	TESTED, LOW - HIGH	38					35.00			
39	ESTIMATED, LOW - HIGH	39								
PLANT OPERATING DATA AND COST OF EQUIPMENT										
39	EST. TOTAL ANNUAL PLANT EMISSIONS 7/	39	15.33	19.34		1.43	30.45			
40	PARTICULATE MATTER (1,000 TONS)	40	45.66	49.75		12.39	34.70			
41	SULFUR DIOXIDE (1,000 TONS)	41	13.34	8.86	.43	5.97	5.07			
42	NITROGEN OXIDES (1,000 TONS)	42	5	3		2	3			
43	STACKS: - TOTAL NO.	43	244.00	272.00	297.00	176.00	210.00			
44	- HEIGHT (FEET), LOWEST - HIGHEST 8/	44								
45	COMBUSTION CYCLE ADJUSTIVES (1,000 TONS) 9/	45								
46	TOTAL ASH: COLLECTED (1,000 TONS) 10/	46	165.30	138.70		19.34	67.40			
47	SOLO (1,000 TONS) 11/	47		.70		10.00				
48	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	48								
49	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	49								
50	ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	50	454.10	216.50		60.00	104.80			
51	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	51	2,934.00							
52	ELECTROSTATIC PRECIPITATORS (\$1,000)	52								
53	COMBINATION PRECIPITATORS (\$1,000) 4/	53								
54	DESULFURIZATION SYSTEMS (\$1,000)	54								
55	STACKS (\$1,000)	55	450.00	209.00	25.92	133.20	300.00			
56	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	56	209.80	67.00		12.29	140.00			
57	REVENUES FROM SALE OF ASH (\$1,000)	57		1.30			70.80			
58	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	58								
59	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	59					136.50			
60	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	60	209.80	67.00		12.29	207.30			
61	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	61		1.30		1.00				
WATER QUALITY CONTROL DATA										
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R	SAGINAW	L	ERIE	M	W	R	MISSISSIPPI
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62		910.00		351.00		52.00		5.18
63	AVERAGE RATE OF DISCHARGE (CFS)	63		910.00		351.00		52.00		3.38
64	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	64		7.83		3.02		.45		1.77
65	PEAK LOAD MONTH: 15/	65		JUN		JUL		AUG		JAN
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER 16/	66		78.00		76.00		58.00		58.00
67	AT OUTFALL, SUMMER - WINTER 17/	67		95.00		91.00		89.00		93.00
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER 18/	68								
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D 19/	69								
70	CHEMICAL ADJUSTIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70								
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71		2.37		.45		2.00		.05
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	72		.43		.45		.03		16.50
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	73				9.50		1,288.00		48.05
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74				.25		70.50		.50
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75		52.00		4.86		19.00		3.90
76	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 20/	76		ST		ST		OT		PS
77	POND DISCHARGE 21/	77		10.30		8.00		10.50		8.00
78	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	78		15.00		15.00				
79	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	79								
80	BOILER BLOWDOWN - ASH SETTLING	80								
81	BOILER BLOWDOWN - ASH SETTLING	81								
82	BOILER BLOWDOWN - ASH SETTLING	82								
COOLING FACILITY DATA										
83	NO. OF UNITS AND CAPACITY (MW) USING 22/	83	8	614.50	3	325.00	4	42.40	5	187.90
84	ONCE THROUGH COOLING (FRESH)	84								
85	ONCE THROUGH COOLING (SALINE)	85								
86	COOLING PONDS (S)	86								
87	COOLING TOWER (S)	87								
88	COMBINATIONS 23/	88								
89	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	89	1940	1958	1952	1953	1940	1963	1959	1965
90	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 24/	90	11.70	16.50	12.10	15.00		26.00	17.80	18.40
91	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	91		1,196.00		477.00		60.20		267.40
92	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	92		1,212.00		477.00				1,841.50
CAPITAL COSTS OF COOLING FACILITIES										
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92								1,085.30
93	COOLING PONDS (\$1,000)	93								
94	COOLING TOWERS (\$1,000)	94								2,301.00
ANNUAL COOLING WATER EXPENSES										
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95		10.00		.42		12.00		2.30
96	COST OF CHEMICAL ADJUSTIVES (\$1,000)	96		13.80		1.70		17.45		81.02
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES										
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97		10.00		4.50		11.50		15.20
98	COST OF CHEMICAL ADJUSTIVES (\$1,000)	98		6.20		3.30		4.75		2.20

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

NAME OF UTILITY	1	DAIRYLAND POWER COOPERATIVE	DAIRYLAND POWER COOPERATIVE	DAIRYLAND POWER COOPERATIVE	DALLAS POWER & LIGHT CO.	DALLAS POWER & LIGHT CO.	1
NAME OF PLANT	2	GENOA #3	STONEMAN	GENOA (NUCLEAR)	DALLAS	MOUNTAIN CREEK	2
UTILITY-PLANT CODE	3	126000-0450	126000-0500	126000-0700	126500-0100	126500-0200	3
STATE	4	WISCONSIN	WISCONSIN	WISCONSIN	TEXAS	TEXAS	4
COUNTY	5	VERNON	GRANT	VERNON	DALLAS	DALLAS	5
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	128 07	068 07	066 07	215 12	215 12	6
PLANT CAPACITY (MM)	7	345.60	51.75	50.00	223.75	989.74	7
ANNUAL GENERATION (MMH) 3/	8	1,651,200	203,900		442,000	3,828,600	8
PLANT HEAT RATE (BTU/KWH) 4/	9	8,798	12,003		12,989	10,208	9
AIR QUALITY CONTROL DATA							
FUEL CONSUMPTION DATA (ANNUAL)							
COAL: CONSUMPTION (1,000 TONS)	12	723.00	124.00				12
AVERAGE HEAT CONTENT (BTU/LB)	13	9,949	9,814				13
AVERAGE SULFUR CONTENT (%)	14	3.66	3.29				14
AVERAGE ASH CONTENT (%)	15	20.62	21.63				15
AVERAGE MOISTURE CONTENT (%)	16	9.77	11.13				16
OIL: CONSUMPTION (1,000 BARRELS)	17	25.54	11.13		8.00	28.34	17
AVERAGE HEAT CONTENT (BTU/GAL)	18	140,000	140,000		146,071	146,071	18
AVERAGE SULFUR CONTENT (%)	19	.30	.30		.73	.94	19
GAS: CONSUMPTION (1,000 MCF)	20				5,333.65	38,113.90	20
AVERAGE HEAT CONTENT (BTU/CU.FT.)	21				1,067	1,021	21
PLANT EQUIPMENT DATA							
BOILERS: - TOTAL NO.	22	1	2		9	8	22
- NO. OF WET BOTTOM	23						23
- NO. WITH FLY ASH REINJECTION	24						24
- NO. WITH MECHANICAL PRECIPITATORS	25		2				25
- NO. WITH ELECTROSTATIC PRECIPITATORS	26						26
- NO. WITH COMBINATION PRECIPITATORS	27	1					27
- NO. WITH DESULFURIZATION SYSTEMS	28						28
EXCESS AIR USED (%) - LOWEST BOILER 5/	29	20.00	20.00		10.00	8.00	29
MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30		84.00				30
TESTED, LOW - HIGH	31						31
ESTIMATED, LOW - HIGH	32		85.00				32
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	33	99.00					33
TESTED, LOW - HIGH	34						34
EST., LOW - HIGH	35	88.00					35
DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36						36
TESTED, LOW - HIGH	37						37
ESTIMATED, LOW - HIGH	38						38
PLANT OPERATING DATA AND COST OF EQUIPMENT							
EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	39	15.21	3.41				39
SULFUR DIOXIDE (1,000 TONS)	40	51.89	7.97		.02	.09	40
NITROGEN OXIDES (1,000 TONS)	41	6.56	1.12		1.06	7.49	41
STACKS: - TOTAL NO.	42	1	2				42
- HEIGHT (FEET), LOWEST - HIGHEST	43	500.00	138.00		137.00	361.00	43
COMBUSTION CYCLE ADDITIVES (1,000 TONS)	44					142.00	44
TOTAL ASH: COLLECTED (1,000 TONS)	45	133.00	23.60			167.00	45
SOLO (1,000 TONS)	46	8.10					46
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
EQUIVALENT OF ACID COLLECTED (1,000 TONS)	48						48
ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	49						49
INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50		45.50				50
ELECTROSTATIC PRECIPITATORS (\$1,000)	51	811.00					51
COMBINATION PRECIPITATORS (\$1,000)	52						52
DESULFURIZATION SYSTEMS (\$1,000)	53						53
STACKS (\$1,000)	54	605.00	24.40		203.00	200.00	54
ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	210.60	13.50				55
REVENUES FROM SALE OF ASH (\$1,000)	56	1.70					56
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						57
REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						58
TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000)	59	210.60	13.50				59
TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60	1.70					60
WATER QUALITY CONTROL DATA							
COOLING WATER: SOURCE (CODES R, L, B, C, M, H & O EXPL. IN FOOTNOTES)	61	R MISSISSIPPI	R MISSISSIPPI	R MISSISSIPPI	W	O SURFACE	61
AVERAGE RATE OF WITHDRAWAL (CFS)	62	322.00	62.00	66.80	1.00	793.00	62
AVERAGE RATE OF DISCHARGE (CFS)	63	322.00	62.00	66.80		787.00	63
AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED	64	2.77	.53	.57	1.00	6.00	64
PEAK LOAD MONTH: AUG	65	JAN	JAN	JAN		JUL	65
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	85.00	40.00	85.00	40.00	94.00	66
AT OUTFALL, SUMMER - WINTER	67	100.00	77.00	96.00	80.00	94.00	67
AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68	27,200.00	35,000.00	27,200.00		58.00	68
- WINTER	69	12,700.00	25,700.00	12,700.00			69
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D	70						70
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71		.03		3.00	.75	71
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72		1.17		6.20		72
LIME (TONS), COOLING WATER - BOILER MAKEUP	73						73
ALUM (TONS), COOLING WATER - BOILER MAKEUP	74		.26				74
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75				15.00	7.00	75
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76	YES	YES	YES	YES	YES	76
SEWAGE DISPOSAL: METHOD PS, ST, SW, DT	77	PS	PS	PS	PS	PS	77
RECEIVING WATER BODY	78		R MISSISSIPPI				78
POND DISCHARGE: BOILER BLOWDOWN - ASH SETTLING	79		8.40			8.00	79
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80		70.00			20.00	80
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	81					1,000,000.00	81
	82						82
COOLING FACILITY DATA							
NO. OF UNITS AND CAPACITY (MM USG/DAY) ONCE THROUGH COOLING (FRESH)	83	1	2	1	50.00		83
ONCE THROUGH COOLING (SALINE)	84	346.00	51.80				84
COOLING POND(S)	85				3	70.00	85
COOLING TOWER(S)	86				2	153.80	86
COMBINATIONS	87						87
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1969	1951	1952	1964	1923	88
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST	89	17.30	16.00	16.93	30.00	15.00	89
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	362.00	85.90	133.60	257.00	16.00	90
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	378.00	94.90	133.60		9.00	91
CAPITAL COSTS OF COOLING FACILITIES							
ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	1,168.00	413.20	748.20			92
COOLING PONDS (\$1,000)	93				495.00	4,333.00	93
COOLING TOWERS (\$1,000)	94				1,405.00		94
ANNUAL COOLING WATER EXPENSES							
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	41.50	2.30	2.60	121.00	44.00	95
COST OF CHEMICAL ADDITIVES (\$1,000)	96	.80			18.00	2.00	96
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	33.50	11.60	7.10	25.00	24.00	97
COST OF CHEMICAL ADDITIVES (\$1,000)	98	15.70	.80	2.10	1.00	4.00	98

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	DALLAS POWER & LIGHT CO.	DALLAS POWER & LIGHT CO.	DALLAS POWER & LIGHT CO.	ATLANTIC CITY ELECTRIC CO.	DELMARVA POWER & LIGHT CO. OF MD.	1
2	NAME OF PLANT	2	NORTH LAKE	PARKDALE	LAKE HUBBARD	DEEPWATER	VIENNA	2
3	UTILITY-PLANT CODE	3	126500-0300	126500-0400	126500-0500	128500-0100	129500-0300	3
4	STATE	4	TEXAS	TEXAS	TEXAS	NEW JERSEY	MARYLAND	4
5	COUNTY	5	DALLAS	DALLAS	DALLAS	SALEM	DOORCHESTER	5
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	215	12	215	12	045	02
7	PLANT CAPACITY (MMH)	7	708.61	340.63	396.52	308.30	256.50	8
8	ANNUAL GENERATION (MMH) 3/	8	2,816,100	749,300	789,500	1,514,200	431,300	9
9	PLANT HEAT RATE (BTU/KWH) 3/	9	10,240	12,115	11,694	11,428	15,953	10
10		10						11
AIR QUALITY CONTROL DATA								
FUEL CONSUMPTION DATA (ANNUAL)								
12	COAL: CONSUMPTION (1,000 TONS)	12					235.00	12
13	AVERAGE HEAT CONTENT (BTU/LB)	13					12,553	13
14	AVERAGE SULFUR CONTENT (%)	14					2.30	14
15	AVERAGE ASH CONTENT (%)	15					13.52	15
16	AVERAGE MOISTURE CONTENT (%)	16					4.70	16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	35.83	25.87	16.19	4,060.32	164.00	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	146,071	146,071	146,071	145,660	144,352	18
19	AVERAGE SULFUR CONTENT (%)	19	.78	.71	.25	.42	.62	19
20	GAS: CONSUMPTION (1,000 MCF)	20	25,812.10	8,814.46	9,020.12	2,769.88	20	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,109	1,012	1,013	1,031	21	21
PLANT EQUIPMENT DATA								
22	BOILERS: - TOTAL NO.	22	3	3	1	8	7	22
23	- NO. OF WET BOTTOM	23				5		23
24	- NO. WITH FLY ASH REINJECTION	24					1	24
25	- NO. WITH MECHANICAL PRECIPITATORS	25				7	6	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26				1		26
27	- NO. WITH COMBINATION PRECIPITATORS	27						27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER	29	8.00	7.00	8.00	7.00	30.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30				82.00	88.00	30
31	TESTED, LOW - HIGH	31				64.50	84.10	31
32	ESTIMATED, LOW - HIGH	32					50.00	32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	33				90.00		33
34	TESTED, LOW - HIGH	34				90.70		34
35	EST., LOW - HIGH	35				70.00		35
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36						36
37	TESTED, LOW - HIGH	37						37
38	ESTIMATED, LOW - HIGH	38						38
PLANT OPERATING DATA AND COST OF EQUIPMENT								
39	EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	39	.01			.15	8.60	39
40	SULFUR DIOXIDE (1,000 TONS)	40	.09	.06	.01	5.72	10.93	40
41	NITROGEN OXIDES (1,000 TONS)	41	5.11	1.78	1.79	9.49	2.40	41
42	STACKS: - TOTAL NO.	42	6	6	1	6	7	42
43	- HEIGHT (FEET), LOWEST - HIGHEST	43	164.00	193.00	141.00	156.00	175.20	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)	44					225.50	44
45	TOTAL ASH: COLLECTED (1,000 TONS)	45					.11	45
46	SOLO (1,000 TONS)	46						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
48	EQUIVALENT OF ACIO COLLECTED (1,000 TONS)	48						48
49	ELEMENTAL AND EQUIVALENT OF ACIO SOLD (1,000 TONS)	49						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50				373.50	134.00	50
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51				218.20		51
52	COMBINATION PRECIPITATORS (\$1,000)	52						52
53	DESULFURIZATION SYSTEMS (\$1,000)	53						53
54	STACKS (\$1,000)	54	94.00	48.00	47.00	313.70	86.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55					64.00	55
56	REVENUES FROM SALE OF ASH (\$1,000)	56						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						58
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000)	59					64.00	59
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60						60
WATER QUALITY CONTROL DATA								
61	COOLING WATER: SOURCE (DESIGN, L, B, C, M, O, OT, PS, ST, R, S, T, W, Y, Z)	61	M	CW WHITE ROCK	R TRINITY	R OELAWARE	R NANTICOKE	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	707.00	3.00	185.00	400.00	220.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	703.00	1.00	184.00	400.00	215.50	63
64	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED	64	4.00	2.00	1.00	3.44	4.50	64
65	PEAK LOAD MONTH: JUL	65				AUG	DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66				82.00	38.00	66
67	AT OUTFALL, SUMMER - WINTER	67				94.00	52.00	67
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	68				362,000.00	20,000.00	68
69	FREQUENCY OF TEMPERATURE MONITORING: C, M, O, OT, PS, ST, R, S, T, W, Y, Z	69				362,000.00	20,000.00	69
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70						70
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71	1.85	14.05	1.05	.55	1.17	71
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	72	182.98	56.49	23.42	7.35	.50	72
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	73	7.68		8.48		3.70	73
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74					.06	74
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75	3.00	20.00	2.00	73.00		75
76	SEWAGE DISPOSAL: METHOD PS, ST, SM, OT, PS, ST, R, S, T, W, Y, Z	76	YES	YES	YES	YES	YES	76
77	RECEIVING WATER BODY	77	OT	PS	OT	ST	PS	77
78	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	78						78
79	SUSPENDED SOLIDS (PPH), BOILER BLOWDOWN - ASH SETTLING	79	8.00				11.00	79
80	VOLUME (1,000 CU.FT./YR), BOILER BLOWDOWN - ASH SETTLING	80	3.00				400.00	80
81		81	9,300.00				5,000.00	81
82		82					3,000.00	82
COOLING FACILITY DATA								
83	NO. OF UNITS AND CAPACITY (MMH) USING: ONCE THROUGH COOLING (FRESH)	83				4	261.10	83
84	ONCE THROUGH COOLING (SALINE)	84						84
85	COOLING POND(S)	85	3	340.60	1	396.50	1	85
86	COOLING TOWER(S)	86						86
87	COMBINATIONS	87						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88						88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST	89	14.00	1959	1953	1968	1970	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90		16.00	17.00	21.00	19.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91		898.00	432.00	468.00	620.00	91
CAPITAL COSTS OF COOLING FACILITIES								
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92				2,156.80	519.00	92
93	COOLING PONDS (\$1,000)	93	3,555.00		2,883.00			93
94	COOLING TOWERS (\$1,000)	94		3,447.00			469.00	94
ANNUAL COOLING WATER EXPENSES								
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	39.00	87.00	40.00		10.00	95
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	1.00	17.00		7.80	5.00	96
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES								
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	18.00	13.00	17.00	52.87	6.00	97
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	15.00	5.00	3.00	2.17	3.00	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

NAME OF UTILITY	1	2	3	4	5	6	7	8	9	10	11
NAME OF PLANT	1	2	3	4	5	6	7	8	9	10	11
UTILITY-PLANT CODE	1	2	3	4	5	6	7	8	9	10	11
STATE	1	2	3	4	5	6	7	8	9	10	11
COUNTY	1	2	3	4	5	6	7	8	9	10	11
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	1	2	3	4	5	6	7	8	9	10	11
PLANT CAPACITY (MW)	1	2	3	4	5	6	7	8	9	10	11
ANNUAL GENERATION (MMH) 3/	1	2	3	4	5	6	7	8	9	10	11
PLANT HEAT RATE (BTU/KWH) 4/	1	2	3	4	5	6	7	8	9	10	11
AIR QUALITY CONTROL DATA											
FUEL CONSUMPTION DATA (ANNUAL)											
COAL: CONSUMPTION (1,000 TONS)	12	13	14	15	16	17	18	19	20	21	22
AVERAGE HEAT CONTENT (BTU/LB)	12	13	14	15	16	17	18	19	20	21	22
AVERAGE SULFUR CONTENT (%)	12	13	14	15	16	17	18	19	20	21	22
AVERAGE ASH CONTENT (%)	12	13	14	15	16	17	18	19	20	21	22
AVERAGE MOISTURE CONTENT (%)	12	13	14	15	16	17	18	19	20	21	22
OIL: CONSUMPTION (1,000 BARRELS)	12	13	14	15	16	17	18	19	20	21	22
AVERAGE HEAT CONTENT (BTU/GAL)	12	13	14	15	16	17	18	19	20	21	22
AVERAGE SULFUR CONTENT (%)	12	13	14	15	16	17	18	19	20	21	22
GAS: CONSUMPTION (1,000 MCF)	12	13	14	15	16	17	18	19	20	21	22
AVERAGE HEAT CONTENT (BTU/CU.FT.)	12	13	14	15	16	17	18	19	20	21	22
PLANT EQUIPMENT DATA											
BOILERS: - TOTAL NO.	23	24	25	26	27	28	29	30	31	32	33
- NO. OF WET BOTTOM	23	24	25	26	27	28	29	30	31	32	33
- NO. WITH FLY ASH REINJECTION	23	24	25	26	27	28	29	30	31	32	33
- NO. WITH MECHANICAL PRECIPITATORS	23	24	25	26	27	28	29	30	31	32	33
- NO. WITH ELECTROSTATIC PRECIPITATORS	23	24	25	26	27	28	29	30	31	32	33
- NO. WITH COMBINATION PRECIPITATORS 5/	23	24	25	26	27	28	29	30	31	32	33
- NO. WITH DESULFURIZATION SYSTEMS	23	24	25	26	27	28	29	30	31	32	33
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 6/	23	24	25	26	27	28	29	30	31	32	33
MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	23	24	25	26	27	28	29	30	31	32	33
TESTED, LOW - HIGH	23	24	25	26	27	28	29	30	31	32	33
ESTIMATED, LOW - HIGH	23	24	25	26	27	28	29	30	31	32	33
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	23	24	25	26	27	28	29	30	31	32	33
TESTED, LOW - HIGH	23	24	25	26	27	28	29	30	31	32	33
EST., LOW - HIGH	23	24	25	26	27	28	29	30	31	32	33
DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	23	24	25	26	27	28	29	30	31	32	33
TESTED, LOW - HIGH	23	24	25	26	27	28	29	30	31	32	33
ESTIMATED, LOW - HIGH	23	24	25	26	27	28	29	30	31	32	33
PLANT OPERATING DATA AND COST OF EQUIPMENT											
EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	34	35	36	37	38	39	40	41	42	43	44
SULFUR DIOXIDE (1,000 TONS)	34	35	36	37	38	39	40	41	42	43	44
NITROGEN OXIDES (1,000 TONS)	34	35	36	37	38	39	40	41	42	43	44
STACKS: - TOTAL NO.	34	35	36	37	38	39	40	41	42	43	44
- HEIGHT (FEET), LOWEST - HIGHEST 7/	34	35	36	37	38	39	40	41	42	43	44
COMBUSTION CYCLE ADJUSTMENTS (1,000 TONS) 8/	34	35	36	37	38	39	40	41	42	43	44
TOTAL ASH: COLLECTED (1,000 TONS) 9/	34	35	36	37	38	39	40	41	42	43	44
SOLO (1,000 TONS) 10/	34	35	36	37	38	39	40	41	42	43	44
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS) 11/	34	35	36	37	38	39	40	41	42	43	44
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	34	35	36	37	38	39	40	41	42	43	44
ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS) 13/	34	35	36	37	38	39	40	41	42	43	44
INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	34	35	36	37	38	39	40	41	42	43	44
ELECTROSTATIC PRECIPITATORS (\$1,000)	34	35	36	37	38	39	40	41	42	43	44
COMBINATION PRECIPITATORS (\$1,000) 14/	34	35	36	37	38	39	40	41	42	43	44
DESULFURIZATION SYSTEMS (\$1,000)	34	35	36	37	38	39	40	41	42	43	44
STACKS (\$1,000)	34	35	36	37	38	39	40	41	42	43	44
ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	34	35	36	37	38	39	40	41	42	43	44
REVENUES FROM SALE OF ASH (\$1,000)	34	35	36	37	38	39	40	41	42	43	44
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	34	35	36	37	38	39	40	41	42	43	44
REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	34	35	36	37	38	39	40	41	42	43	44
TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 15/	34	35	36	37	38	39	40	41	42	43	44
TOTAL BYPRODUCT SALES REVENUES (\$1,000)	34	35	36	37	38	39	40	41	42	43	44
WATER QUALITY CONTROL DATA											
COOLING WATER: SOURCE (CODES R, L, B, C, W, M, M & O EXPL. IN FOOTNOTES)	45	46	47	48	49	50	51	52	53	54	55
AVERAGE RATE OF WITHDRAWAL (CF5)	45	46	47	48	49	50	51	52	53	54	55
AVERAGE RATE OF DISCHARGE (CF5)	45	46	47	48	49	50	51	52	53	54	55
AVERAGE RATE OF CONSUMPTION (CF5), CALCULATED - REPORTED 16/	45	46	47	48	49	50	51	52	53	54	55
PEAK LOAD MONTH: 17/	45	46	47	48	49	50	51	52	53	54	55
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	45	46	47	48	49	50	51	52	53	54	55
AT OUTFALL, SUMMER - WINTER	45	46	47	48	49	50	51	52	53	54	55
AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CF5): 18/	45	46	47	48	49	50	51	52	53	54	55
SUMMER - WINTER	45	46	47	48	49	50	51	52	53	54	55
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D 19/	45	46	47	48	49	50	51	52	53	54	55
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	45	46	47	48	49	50	51	52	53	54	55
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	45	46	47	48	49	50	51	52	53	54	55
LIME (TONS), COOLING WATER - BOILER MAKEUP	45	46	47	48	49	50	51	52	53	54	55
ALUM (TONS), COOLING WATER - BOILER MAKEUP	45	46	47	48	49	50	51	52	53	54	55
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	45	46	47	48	49	50	51	52	53	54	55
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	45	46	47	48	49	50	51	52	53	54	55
SEWAGE DISPOSAL: METHOD PS, ST, SW, DTW 20/	45	46	47	48	49	50	51	52	53	54	55
IN RECEIVING WATER BODY	45	46	47	48	49	50	51	52	53	54	55
POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	45	46	47	48	49	50	51	52	53	54	55
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	45	46	47	48	49	50	51	52	53	54	55
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	45	46	47	48	49	50	51	52	53	54	55
COOLING FACILITY DATA											
NO. OF UNITS AND CAPACITY (MW) USING: 21/	56	57	58	59	60	61	62	63	64	65	66
ONCE THROUGH COOLING (FRESH)	56	57	58	59	60	61	62	63	64	65	66
ONCE THROUGH COOLING (SALINE)	56	57	58	59	60	61	62	63	64	65	66
COOLING PONDS(S)	56	57	58	59	60	61	62	63	64	65	66
COOLING TOWER(S)	56	57	58	59	60	61	62	63	64	65	66
COMBINATIONS 22/	56	57	58	59	60	61	62	63	64	65	66
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	56	57	58	59	60	61	62	63	64	65	66
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 23/	56	57	58	59	60	61	62	63	64	65	66
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CF5)	56	57	58	59	60	61	62	63	64	65	66
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CF5)	56	57	58	59	60	61	62	63	64	65	66
CAPITAL COSTS OF COOLING FACILITIES											
ONCE THROUGH COOLING SYSTEMS (\$1,000)	67	68	69	70	71	72	73	74	75	76	77
COOLING PONDS (\$1,000)	67	68	69	70	71	72	73	74	75	76	77
COOLING TOWERS (\$1,000)	67	68	69	70	71	72	73	74	75	76	77
ANNUAL COOLING WATER EXPENSES											
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	78	79	80	81	82	83	84	85	86	87	88
COST OF CHEMICAL ADDITIVES (\$1,000)	78	79	80	81	82	83	84	85	86	87	88
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES											
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	89	90	91	92	93	94	95	96	97	98	99
COST OF CHEMICAL ADDITIVES (\$1,000)	89	90	91	92	93	94	95	96	97	98	99

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	CITY OF DOVER	DUKE POWER CO.	DUKE POWER CO.	DUKE POWER CO.	DUKE POWER CO.	1
2		2						2
3		3						3
4	NAME OF PLANT	4	MCKEE RUN	ALLEN	BUCK	CLIFFSIDE	OAN RIVER	4
5	UTILITY-PLANT CODE	5	138500-0100	139500-0200	139500-0500	139500-0800	139500-1000	5
6	STATE	6	DELAWARE	NORTH CAROLINA	NORTH CAROLINA	NORTH CAROLINA	NORTH CAROLINA	6
7	COUNTY	7	KENT	GASTON	ROWAN	CLEVELAND	ROCKINGHAM	7
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	8	046 02	167 03	167 03	165 03	136 03	8
9	PLANT CAPACITY (MW)	9	37.50	1,155.00	533.00	210.00	290.00	9
10	ANNUAL GENERATION (MWH) 2/	10	156,300	8,153,400	2,921,700	1,388,000	2,014,200	10
11	PLANT HEAT RATE (BTU/KWH) 2/	11	13,852	9,226	11,109	11,409	10,210	11
AIR QUALITY CONTROL DATA								
FUEL CONSUMPTION DATA (ANNUAL)								
12	COAL: CONSUMPTION (1,000 TONS)	12	64.20	3,267.80	1,186.92	655.50	868.38	12
13	AVERAGE HEAT CONTENT (BTU/LBI)	13	12,242	11,510	11,984	12,079	11,841	13
14	AVERAGE SULFUR CONTENT (%)	14	2.98	1.09	.94	1.11	.80	14
15	AVERAGE ASH CONTENT (%)	15	14.12	15.47	12.96	14.12	13.78	15
16	AVERAGE MOISTURE CONTENT (%)	16	4.75	6.80	7.39	6.43	6.99	16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	.04	18.81		4.80		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	140,000	140,000		138,500		18
19	AVERAGE SULFUR CONTENT (%)	19	.10	.10		.25		19
20	GAS: CONSUMPTION (1,000 MCF)	20	604.90					20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,000					21
PLANT EQUIPMENT DATA								
22	BOILERS: - TOTAL NO.	22	2	5	9	4	3	22
23	- NO. OF WET BOTTOM	23						23
24	- NO. WITH FLY ASH REINJECTION	24						24
25	- NO. WITH MECHANICAL PRECIPITATORS	25	2				1	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26		3	2	2	2	26
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27		2				27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29		25.00	19.00	23.00	22.80	19.00
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30		94.90				85.00
31	TESTED, LOW - HIGH	31	85.50	85.60				74.80
32	ESTIMATED, LOW - HIGH	32	82.10	82.20				70.00
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	33		97.00	99.00	95.00	95.00	99.00
34	TESTED, LOW - HIGH	34		96.70	97.00	83.10	87.60	
35	EST., LOW - HIGH	35		90.00	95.00	88.00		99.00
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36						
37	TESTED, LOW - HIGH	37						
38	ESTIMATED, LOW - HIGH	38						
PLANT OPERATING DATA AND COST OF EQUIPMENT								
39	EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	39	1.38	36.95	57.86	33.92	16.51	39
40	SULFUR DIOXIDE (1,000 TONS)	40	3.76	69.81	21.87	14.26	13.71	40
41	NITROGEN OXIDES (1,000 TONS)	41	.70	29.45	10.68	5.90	7.87	41
42	STACKS: - TOTAL NO.	42	1	5	9	4	4	42
43	- HEIGHT (FEET), LOWEST - HIGHEST 6/	43	175.00	252.25	176.30	215.50	154.00	159.00
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 10/	44		459.40	97.00	59.10	80.40	
45	TOTAL ASH: COLLECTED (1,000 TONS) 11/	45		25.80				
46	SOLD (1,000 TONS) 11/	46						
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	48						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50						
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51		1,335.00	1,248.00	880.00	1,502.00	
52	COMBINATION PRECIPITATORS (\$1,000) 4/	52		1,094.00				
53	DESULFURIZATION SYSTEMS (\$1,000)	53						
54	STACKS (\$1,000)	54		594.60	53.28	38.14	57.98	
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55		262.00	63.10	21.00	26.00	
56	REVENUES FROM SALE OF ASH (\$1,000)	56						
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	59		262.00	63.10	21.00	26.00	
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60						
WATER QUALITY CONTROL DATA								
61	COOLING WATER: SOURCE (CODES R, L, B, F, W, P, A, EXT. IN FACTORY TEST)	61	MW	L WYLIE	L HIGH ROCK	R BRDAO	R OAN	61
62	AVERAGE RATE OF WITHDRAWAL (ICFS)	62		224.80	731.50	341.00	325.30	62
63	AVERAGE RATE OF DISCHARGE (ICFS)	63		224.80	731.50	341.00	325.30	63
64	AVERAGE RATE OF CONSUMPTION (ICFS), CALCULATED - REPORTED 14/	64		1.93	6.29	2.93	2.80	64
65	PEAK LOAD MONTH: SUMMER - WINTER 15/	65		JUL	JUN	JUL	JUL	65
66	MAX. TEMP. DURING PEAK MONTH IDEG. F. 1/ AT DIVERSION, SUMMER - WINTER	66		87.00	82.00	82.00	80.00	66
67	AT OUTFALL, SUMMER - WINTER	67		108.00	86.00	96.00	98.00	67
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (ICFS): SUMMER - WINTER	68						68
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O 16/	69						69
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70						70
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71	.21	.24	.03	.50	.01	71
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	72						72
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	73						73
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74	1.68		14.00		18.00	74
75	OTHER IYES/NOI, COOLING WATER - BOILER MAKEUP	75						75
76	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 17/	76	YES	YES	YES	YES	YES	76
77	RECEIVING WATER BODY	77	PS	ST/OT	ST/OT	ST/OT	OT	77
78	POND DISCHARGE 18/	78		L WYLIE	R YACKIN	R BRDAO	R OAN	78
79	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79		2.00	10.70	9.00	8.80	79
80	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	80		10.00				80
81		81						81
82		82						82
COOLING FACILITY DATA								
83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	83		5	1,155.00	6	440.00	83
84	ONCE THROUGH COOLING (SALINE)	84				4	210.00	84
85	COOLING POND(S)	85						85
86	COOLING TOWER(S)	86	2	37.50				86
87	COMBINATIONS 21/	87						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88		1961	1957	1961	1926	1953
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	89		20.00	17.70	18.00	11.70	13.90
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (ICFS)	90			1,214.10		900.00	407.60
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (ICFS)	91			1,334.00		900.00	416.00
CAPITAL COSTS OF COOLING FACILITIES								
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92			4,000.00	727.00	359.00	855.00
93	COOLING PONDS (\$1,000)	93						
94	COOLING TOWERS (\$1,000)	94						
ANNUAL COOLING WATER EXPENSES								
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95						
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96		7.96		1.50		5.60
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES								
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97		1.36				
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98		.11		2.50	.10	6.70

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

NAME OF UTILITY	1	DUKE POWER CO.	DUKE POWER CO.	DUKE POWER CO.	DUKE POWER CO.	DUKE POWER CO.	1
NAME OF PLANT	2	LEE	MARSHALL	PIVEBENO	TIGER	GREENWOOD	2
UTILITY-PLANT CODE	3	139500-1900	139500-2200	139500-2600	139500-3000	139500-3200	3
STATE	4	SOUTH CAROLINA	NORTH CAROLINA	NORTH CAROLINA	SOUTH CAROLINA	SOUTH CAROLINA	4
COUNTY	5	ANDERSON	CATAWBA	GASTON	SPARTANBURG	GREENWOOD	5
AIR QUALITY CONTROL REGION NO. ^{1/} - WATER RESOURCE REGION NO. ^{2/}	6	202 03	165 03	167 03	202 03	203 03	6
PLANT CAPACITY (MW)	7	345.00	2,000.00	751.00	30.00	34.10	7
ANNUAL GENERATION (MWH) ^{3/}	8	2,633,300	13,682,700	4,292,900	18,300	215,200	8
PLANT HEAT RATE (BTU/KWH) ^{4/}	9	10,023	8,695	10,653	31,644	14,328	9

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	12	921.82	5,105.59	1,391.56	21.17	44.48	12
AVERAGE HEAT CONTENT (BTU/LB)	13	11,742	11,582	12,360	13,700	13,643	13
AVERAGE SULFUR CONTENT (%)	14	1.11	.91	1.10	1.00	1.00	14
AVERAGE ASH CONTENT (%)	15	13.98	14.51	12.33	6.00	7.15	15
AVERAGE MOISTURE CONTENT (%)	16	6.95	7.43	5.94	4.00	4.01	16
OIL: CONSUMPTION (1,000 BARRELS)	17		120.52	617.22		81.89	17
AVERAGE HEAT CONTENT (BTU/GAL)	18		139,194	138,647		138,543	18
AVERAGE SULFUR CONTENT (%)	19		.25	.25		.25	19
GAS: CONSUMPTION (1,000 MCF)	20	4,600.16		7,507.75		1,346.91	20
AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,032		1,030		1,032	21

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	22	3	4	14	8	1	22
- NO. OF WET BOTTOM	23					1	23
- NO. WITH FLY ASH REINJECTION	24						24
- NO. WITH MECHANICAL PRECIPITATORS	25	1	1				25
- NO. WITH ELECTROSTATIC PRECIPITATORS	26	2	2	4			26
- NO. WITH COMBINATION PRECIPITATORS ^{4/}	27		1				27
- NO. WITH DESULFURIZATION SYSTEMS	28						28
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER ^{5/}	29	22.00	18.00	20.00	44.00	40.00	29
MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30	85.00	85.00			10.00	30
TESTED, LOW - HIGH	31	89.10	90.40				31
ESTIMATED, LOW - HIGH	32	81.60	85.00				32
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY ^{6/} : DESIGN, LOW - HIGH	33	99.00	99.00	94.50			33
TESTED, LOW - HIGH	34	99.10	99.00	87.90			34
EST., LOW - HIGH	35	99.00	90.00	87.00			35
DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36						36
TESTED, LOW - HIGH	37						37
ESTIMATED, LOW - HIGH	38						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS ^{7/} : PARTICULATE MATTER (1,000 TONS)	39	9.52	63.36	25.14	1.65	.33	39
SULFUR DIOXIDE (1,000 TONS)	40	20.05	91.16	30.29	.32	.07	40
NITROGEN OXIDES (1,000 TONS)	41	9.19	46.22	18	2	1.67	41
STACKS: - TOTAL NO.	42						42
- HEIGHT (FEET), LOWEST - HIGHEST ^{8/}	43	213.00	280.50	71.08	226.75	217.00	43
COMBUSTION CYCLE ADJUSTIVES (1,000 TONS) ^{9/}	44						44
TOTAL ASH: COLLECTED (1,000 TONS) ^{10/}	45	128.90	664.40	143.70	2.20	4.50	45
SOLO (1,000 TONS) ^{11/}	46		11.20				46
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
EQUIVALENT OF ACID COLLECTED (1,000 TONS) ^{12/}	48						48
ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	49						49
INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50	97.00	222.00				50
ELECTROSTATIC PRECIPITATORS (\$1,000)	51	1,716.00	1,410.00	2,709.00			51
COMBINATION PRECIPITATORS (\$1,000) ^{4/}	52		1,439.00				52
DESULFURIZATION SYSTEMS (\$1,000)	53						53
STACKS (\$1,000)	54	56.82	1,095.80	108.72			54
ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	70.90	147.37	123.10	25.80	1.81	55
REVENUES FROM SALE OF ASH (\$1,000)	56		22.40				56
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						57
REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						58
TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) ^{13/}	59	70.90	147.38	127.10	25.80	1.81	59
TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60		22.40				60

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	P SALUOA	L NORMAN	L MTN. ISLAND	R MIDDLE TIGER	OW PONOS	61
AVERAGE RATE OF WITHDRAWAL (CFS)	62	415.60	1,777.90	888.70	1.85	.38	62
AVERAGE RATE OF DISCHARGE (CFS)	63	411.40	1,777.90	888.70	1.85	.38	63
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED ^{14/}	64	4.20	15.29	7.64			64
PEAK LOAD MONTH: SUMMER - WINTER ^{15/}	65	JUL OEC	JUN OEC	JUL OEC	JUL OEC	JUL OEC	65
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	80.00 54.00	64.00 53.00	86.00 55.00	84.00	60.00 40.00	66
AT OUTFALL, SUMMER - WINTER	67	95.00 75.00	82.00 79.00	101.00 70.00	101.00		67
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	68						68
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C ^{16/}	69						69
CHEMICAL ADJUSTIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70						70
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71	.15				.55	71
LIME (TONS), COOLING WATER - BOILER MAKEUP	72					.40	72
ALUM (TONS), COOLING WATER - BOILER MAKEUP	73						73
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74						74
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75						75
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT ^{17/}	76	YES	YES	YES YES	PS	YES	76
RECEIVING WATER BODY	77	ST/OT	OT	ST/OT	ST		77
POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	78	R SALUOA	L NORMAN	L MTN. ISLAND	R MIDDLE TIGER		78
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79	7.50	8.00	9.40		6.80	79
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	80						80
	81						81
	82					11.60	82

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	83	4	2,000.00	7	631.00		83
ONCE THROUGH COOLING (SALINE)	84						84
COOLING PONDS (1)	85						85
COOLING TOWERS (1)	86						86
COMBINATIONS ^{18/}	87	3	355.00		2	30.00	87
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1951 1958	1965 1970	1929 1954	1924	1956	88
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST ^{19/}	89	14.90 16.80	17.00 17.60	12.60 15.70		20.00	89
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	494.70	2,157.00	1,076.20	1.86	67.20	90
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	363.00	3,299.50	1,100.00	1.87		91

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	552.00	3,539.00	383.00			92
COOLING PONDS (\$1,000)	93						93
COOLING TOWERS (\$1,000)	94	951.00					94

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95					1.50	95
COST OF CHEMICAL ADJUSTIVES (\$1,000)	96					4.10	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97					.20	97
COST OF CHEMICAL ADJUSTIVES (\$1,000)	98	1.20	2.40	5.00		.60	98

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	14	OUQUESNE LIGHT CO.	OUQUESNE LIGHT CO.	OUQUESNE LIGHT CO.	OUQUESNE LIGHT CO.	OUQUESNE LIGHT CO.	1
2	NAME OF PLANT	15	COLFAX	ELRAMA	PHILLIPS	REEO	SHIPPINGPORT	2
3	UTILITY-PLANT CODE	16	140000-0100	140000-0200	140000-0300	140000-0400	140000-0500	3
4	STATE	17	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	4
5	COUNTY	18	ALLEGHENY	WASHINGTON	ALLEGHENY	ALLEGHENY	BEAVER	5
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	19	197 05	197 05	197 05	197 05	197 05	6
7	PLANT CAPACITY (MW)	20	262.50	510.00	411.00	180.00	100.00	7
8	ANNUAL GENERATION (MWH) 3/	21	359,100	2,876,000	2,087,100	550,700	233,900	8
9	PLANT HEAT RATE (BTU/KWH) 3/							9
AIR QUALITY CONTROL DATA								
FUEL CONSUMPTION DATA (ANNUAL)								
12	COAL: CONSUMPTION (1,000 TONS)	12	383.04	1,396.31	1,124.97	429.69		12
13	AVERAGE HEAT CONTENT (BTU/LB)	13	12,271	11,041	10,959	12,090		13
14	AVERAGE SULFUR CONTENT (%)	14	1.60	2.09	1.89	1.67		14
15	AVERAGE ASH CONTENT (%)	15	14.80	19.30	18.91	14.79		15
16	AVERAGE MOISTURE CONTENT (%)	16	5.00	5.84	6.07	4.51		16
17	OIL: CONSUMPTION (1,000 BARRELS)	17						17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18						18
19	AVERAGE SULFUR CONTENT (%)	19						19
20	GAS: CONSUMPTION (1,000 MCF)	20						20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21						21
PLANT EQUIPMENT DATA								
22	BOILERS: - TOTAL NO.	22	22	4	6	6		22
23	- NO. OF WET BOTTOM	23						23
24	- NO. WITH FLY ASH REINJECTION	24						24
25	- NO. WITH MECHANICAL PRECIPITATORS	25	6					25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26	2					26
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27		4	6			27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	25.00 50.00	18.00 25.00	26.00	37.00		29
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30	91.60 92.20					30
31	TESTED, LOW - HIGH	31						31
32	ESTIMATED, LOW - HIGH	32	70.00 85.00					32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/ DESIGN, LOW - HIGH	33	93.00 95.00	97.90 98.30	95.00 98.20			33
34	TESTED, LOW - HIGH	34		88.30 95.30	84.00 94.80			34
35	EST., LOW - HIGH	35	82.00 86.00	88.00 95.00	84.00 95.00			35
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36						36
37	TESTED, LOW - HIGH	37						37
38	ESTIMATED, LOW - HIGH	38						38
PLANT OPERATING DATA AND COST OF EQUIPMENT								
39	EST. TOTAL ANNUAL PLANT EMISSIONS 2/4 PARTICULATE MATTER (1,000 TONS)	39	9.33	19.17	15.55	41.31		39
40	SULFUR DIOXIDE (1,000 TONS)	40	12.01	57.20	41.67	14.06		40
41	NITROGEN OXIDES (1,000 TONS)	41	3.32	12.57	10.12	3.22		41
42	STACKS: - TOTAL NO.	42						42
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	43	355.00 362.00	272.00 292.00	250.00 300.50	250.00		43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	44						44
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	45	51.50	252.20	203.20	22.30		45
46	SOLD (1,000 TONS) 11/	46	51.50			161.10		46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	48						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50	402.50					50
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51	319.20					51
52	COMBINATION PRECIPITATORS (\$1,000) 4/	52		1,803.50	2,485.60			52
53	DESULFURIZATION SYSTEMS (\$1,000) 4/	53						53
54	STACKS (\$1,000)	54	515.50	352.80	310.80	88.40		54
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	15.60	890.80	314.20	84.14		55
56	REVENUES FROM SALE OF ASH (\$1,000)	56	31.51			7.69		56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						58
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	59	165.59	1,189.94	669.30	130.44		59
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60	31.51			7.69		60
WATER QUALITY CONTROL DATA								
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & D EXPL. IN FOOTNOTES)	61	ALLEGHENY	MONONGAHELA	OHIO	OHIO	OHIO	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	499.00	588.70	618.70	487.50	199.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	498.80	587.60	617.30	485.50	198.50	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	64	4.29 20	5.06 1.10	5.52 1.40	4.19 2.00	1.71 1.50	64
65	PEAK LOAD MONTH: SUMMER - WINTER 15/	65	JUN MAR	JUN MAR	JUN MAR	JUN MAR	JUN MAR	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66		80.00 45.00	76.00 42.00	76.00 40.00	76.00 40.00	66
67	AT OUTFALL, SUMMER - WINTER	67		102.00 67.00	89.00 61.00	86.00 53.00	88.00 61.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68						68
69	- WINTER	69						69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OR 16/	70						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71	5.14		1.03	3.39	1.17	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	.15	.94				72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73						73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	18.00	14.00	42.00	26.85	14.00	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76						76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 17/	77	PS	ST	PS	OT	ST	77
78	RECEIVING WATER BODY	78						78
79	POND DISCHARGE 18/	79						79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80		9.00	8.00			80
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	81		60.00	50.00			81
82		82		343,000.00	328,000.00			82
COOLING FACILITY DATA								
83	NO. OF UNITS AND CAPACITY (MW) USING 20/	83	4 262.50	4 425.00	4 315.00	3 180.00	1 100.00	83
84	ONCE THROUGH COOLING (FRESH)	84						84
85	ONCE THROUGH COOLING (SALINE)	85						85
86	COOLING POND(S)	86						86
87	COOLING TOWER(S)	87						87
88	COMBINATIONS 21/	88						88
89	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	89	1921 1927	1952 1960	1942 1956	1930 1941	1956	89
90	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	90	12.00	20.00	20.00	15.00	25.00	90
91	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	91	629.00	785.00	817.00	590.00	254.00	91
92	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	92						92
CAPITAL COSTS OF COOLING FACILITIES								
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	751.60	1,981.00	1,113.40	913.90	1,562.70	92
93	COOLING PONDS (\$1,000)	93						93
94	COOLING TOWERS (\$1,000)	94						94
ANNUAL COOLING WATER EXPENSES								
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95						95
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	1.85	1.44	4.33	2.77	1.44	96
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES								
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97						97
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	8.15	3.98	1.77	7.38	1.08	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

NAME OF UTILITY	1	2	3	4	5	6	7	8	9	10	11	12
NAME OF PLANT	1	2	3	4	5	6	7	8	9	10	11	12
UTILITY-PLANT CODE	1	2	3	4	5	6	7	8	9	10	11	12
STATE	1	2	3	4	5	6	7	8	9	10	11	12
COUNTY	1	2	3	4	5	6	7	8	9	10	11	12
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	1	2	3	4	5	6	7	8	9	10	11	12
PLANT CAPACITY (MMH)	1	2	3	4	5	6	7	8	9	10	11	12
ANNUAL GENERATION (MMH) 3/	1	2	3	4	5	6	7	8	9	10	11	12
PLANT HEAT RATE (BTU/KWH) 4/	1	2	3	4	5	6	7	8	9	10	11	12
AIR QUALITY CONTROL DATA												
FUEL CONSUMPTION DATA (ANNUAL)												
COAL: CONSUMPTION (1,000 TONS)	12	13	14	15	16	17	18	19	20	21	22	23
AVERAGE HEAT CONTENT (BTU/LB)	12	13	14	15	16	17	18	19	20	21	22	23
AVERAGE SULFUR CONTENT (%)	12	13	14	15	16	17	18	19	20	21	22	23
AVERAGE ASH CONTENT (%)	12	13	14	15	16	17	18	19	20	21	22	23
AVERAGE MOISTURE CONTENT (%)	12	13	14	15	16	17	18	19	20	21	22	23
OIL: CONSUMPTION (1,000 BARRELS)	12	13	14	15	16	17	18	19	20	21	22	23
AVERAGE HEAT CONTENT (BTU/GAL)	12	13	14	15	16	17	18	19	20	21	22	23
AVERAGE SULFUR CONTENT (%)	12	13	14	15	16	17	18	19	20	21	22	23
GAS: CONSUMPTION (1,000 MCF)	12	13	14	15	16	17	18	19	20	21	22	23
AVERAGE HEAT CONTENT (BTU/CU.FT.)	12	13	14	15	16	17	18	19	20	21	22	23
PLANT EQUIPMENT DATA												
BOILERS: - TOTAL NO.	22	23	24	25	26	27	28	29	30	31	32	33
- NO. OF WET BOTTOM	22	23	24	25	26	27	28	29	30	31	32	33
- NO. WITH FLY ASH REINJECTION	22	23	24	25	26	27	28	29	30	31	32	33
- NO. WITH MECHANICAL PRECIPITATORS	22	23	24	25	26	27	28	29	30	31	32	33
- NO. WITH ELECTROSTATIC PRECIPITATORS	22	23	24	25	26	27	28	29	30	31	32	33
- NO. WITH COMBINATION PRECIPITATORS 4/	22	23	24	25	26	27	28	29	30	31	32	33
- NO. WITH DESULFURIZATION SYSTEMS	22	23	24	25	26	27	28	29	30	31	32	33
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILERS 5/	22	23	24	25	26	27	28	29	30	31	32	33
MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	22	23	24	25	26	27	28	29	30	31	32	33
TESTED, LOW - HIGH	22	23	24	25	26	27	28	29	30	31	32	33
ESTIMATED, LOW - HIGH	22	23	24	25	26	27	28	29	30	31	32	33
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/; DESIGN, LOW - HIGH	22	23	24	25	26	27	28	29	30	31	32	33
TESTED, LOW - HIGH	22	23	24	25	26	27	28	29	30	31	32	33
EST., LOW - HIGH	22	23	24	25	26	27	28	29	30	31	32	33
DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	22	23	24	25	26	27	28	29	30	31	32	33
TESTED, LOW - HIGH	22	23	24	25	26	27	28	29	30	31	32	33
ESTIMATED, LOW - HIGH	22	23	24	25	26	27	28	29	30	31	32	33
PLANT OPERATING DATA AND COST OF EQUIPMENT												
EST. TOTAL ANNUAL PLANT EMISSIONS 7/; PARTICULATE MATTER (1,000 TONS)	39	40	41	42	43	44	45	46	47	48	49	50
SULFUR DIOXIDE (1,000 TONS)	39	40	41	42	43	44	45	46	47	48	49	50
NITROGEN OXIDES (1,000 TONS)	39	40	41	42	43	44	45	46	47	48	49	50
STACKS: - TOTAL NO.	42	43	44	45	46	47	48	49	50	51	52	53
- HEIGHT (FEET), LOWEST - HIGHEST 8/	42	43	44	45	46	47	48	49	50	51	52	53
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	44	45	46	47	48	49	50	51	52	53	54	55
TOTAL ASH: COLLECTED (1,000 TONS) 10/	44	45	46	47	48	49	50	51	52	53	54	55
SOLD (1,000 TONS) 11/	44	45	46	47	48	49	50	51	52	53	54	55
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	46	47	48	49	50	51	52	53	54	55	56	57
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	46	47	48	49	50	51	52	53	54	55	56	57
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	46	47	48	49	50	51	52	53	54	55	56	57
INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50	51	52	53	54	55	56	57	58	59	60	61
ELECTROSTATIC PRECIPITATORS (\$1,000)	50	51	52	53	54	55	56	57	58	59	60	61
COMBINATION PRECIPITATORS (\$1,000) 4/	50	51	52	53	54	55	56	57	58	59	60	61
DESULFURIZATION SYSTEMS (\$1,000)	50	51	52	53	54	55	56	57	58	59	60	61
STACKS (\$1,000)	50	51	52	53	54	55	56	57	58	59	60	61
ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	56	57	58	59	60	61	62	63	64	65	66
REVENUES FROM SALE OF ASH (\$1,000)	56	57	58	59	60	61	62	63	64	65	66	67
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57	58	59	60	61	62	63	64	65	66	67	68
REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58	59	60	61	62	63	64	65	66	67	68	69
TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	59	60	61	62	63	64	65	66	67	68	69	70
TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60	61	62	63	64	65	66	67	68	69	70	71
WATER QUALITY CONTROL DATA												
COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	62	63	64	65	66	67	68	69	70	71	72
AVERAGE RATE OF WITHDRAWAL (CF5)	61	62	63	64	65	66	67	68	69	70	71	72
AVERAGE RATE OF DISCHARGE (CF5)	61	62	63	64	65	66	67	68	69	70	71	72
AVE. RATE OF CONSUMPTION (CF5), CALCULATED - REPORTED 14/	61	62	63	64	65	66	67	68	69	70	71	72
PEAK LOAD MONTH: SUMMER - WINTER 15/	65	66	67	68	69	70	71	72	73	74	75	76
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	67	68	69	70	71	72	73	74	75	76	77
AT OUTFALL, SUMMER - WINTER	67	68	69	70	71	72	73	74	75	76	77	78
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CF5): SUMMER - WINTER	68	69	70	71	72	73	74	75	76	77	78	79
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, 16/	70	71	72	73	74	75	76	77	78	79	80	81
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71	72	73	74	75	76	77	78	79	80	81	82
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	73	74	75	76	77	78	79	80	81	82	83
LIME (TONS), COOLING WATER - BOILER MAKEUP	73	74	75	76	77	78	79	80	81	82	83	84
ALUM (TONS), COOLING WATER - BOILER MAKEUP	74	75	76	77	78	79	80	81	82	83	84	85
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	76	77	78	79	80	81	82	83	84	85	86
OTHER IYES/NOI, COOLING WATER - BOILER MAKEUP	76	77	78	79	80	81	82	83	84	85	86	87
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 17/	77	78	79	80	81	82	83	84	85	86	87	88
RECEIVING WATER BODY	78	79	80	81	82	83	84	85	86	87	88	89
POND DISCHARGE 18/	79	80	81	82	83	84	85	86	87	88	89	90
SUSPENDED SOLIDS (PPH), BOILER BLOWDOWN - ASH SETTLING	80	81	82	83	84	85	86	87	88	89	90	91
VOLUME (1,000 CU.FT/YR), BOILER BLOWDOWN - ASH SETTLING	81	82	83	84	85	86	87	88	89	90	91	92
COOLING FACILITY DATA												
NO. OF UNITS AND CAPACITY (MMT) USING 19/	83	84	85	86	87	88	89	90	91	92	93	94
ONCE THROUGH COOLING (FRESH)	83	84	85	86	87	88	89	90	91	92	93	94
ONCE THROUGH COOLING (SALINE)	84	85	86	87	88	89	90	91	92	93	94	95
COOLING PONDS (S)	85	86	87	88	89	90	91	92	93	94	95	96
COOLING TOWER (S)	86	87	88	89	90	91	92	93	94	95	96	97
COMBINATIONS 20/	87	88	89	90	91	92	93	94	95	96	97	98
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	89	90	91	92	93	94	95	96	97	98	99
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 21/	89	90	91	92	93	94	95	96	97	98	99	100
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CF5)	90	91	92	93	94	95	96	97	98	99	100	101
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CF5)	91	92	93	94	95	96	97	98	99	100	101	102
CAPITAL COSTS OF COOLING FACILITIES												
ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	93	94	95	96	97	98	99	100	101	102	103
COOLING PONDS (\$1,000)	93	94	95	96	97	98	99	100	101	102	103	104
COOLING TOWERS (\$1,000)	94	95	96	97	98	99	100	101	102	103	104	105
ANNUAL COOLING WATER EXPENSES												
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	96	97	98	99	100	101	102	103	104	105	106
COST OF CHEMICAL ADDITIVES (\$1,000)	96	97	98	99	100	101	102	103	104	105	106	107
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES												
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	98	99	100	101	102	103	104	105	106	107	108
COST OF CHEMICAL ADDITIVES (\$1,000)	98	99	100	101	102	103	104	105	106	107	108	109

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	ELECTRIC ENERGY INC.	EMPIRE DIST. ELECTRIC CO.	EMPIRE DIST. ELECTRIC CO.	EUGENE WATER & ELECTRIC CO.	FLORIDA POWER CORP.	1
2	NAME OF PLANT	2	JOPPA	RIVERTON	ASBURY	EUGENE	AVON PARK	2
3	UTILITY-PLANT CODE	3	145500-0100	149000-0300	149000-0400	153000-0300	165500-0100	3
4	STATE	4	ILLINOIS	KANSAS	MISSOURI	OREGON	FLORIDA	4
5	COUNTY	5	MASSAC	CHEROKEE	JASPER	LANE	HIGHLANDS	5
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	072 05	098 11	139 11	193 17	051 03	6
7	PLANT CAPACITY (MW)	7	1,100.25	155.00	212.80	25.00	61.00	7
8	ANNUAL GENERATION (MMH) 3/	8	6,909,600	703,500	1,168,800	32,400	221,600	8
9	PLANT HEAT RATE (BTU/KWH) 3/	9	10,062	13,348	10,393		12,371	9
AIR QUALITY CONTROL DATA								
FUEL CONSUMPTION DATA (ANNUAL)								
12	COAL: CONSUMPTION (1,000 TONS)	12	3,107.00	24.57	600.18			12
13	AVERAGE HEAT CONTENT (BTU/LB)	13	11,227	12,598	9,970	11,500		13
14	AVERAGE SULFUR CONTENT (%)	14	2.71	4.16	4.90	2.50		14
15	AVERAGE ASH CONTENT (%)	15	11.88	11.56	25.86	11.50		15
16	AVERAGE MOISTURE CONTENT (%)	16	10.51	3.86	6.39			16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	21.00					17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	140,000	155,000		140,000	156,000	18
19	AVERAGE SULFUR CONTENT (%)	19					149,072	19
20	GAS: CONSUMPTION (1,000 MCF)	20	10	2.25			2.08	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21		1,054			1,718.00	21
PLANT EQUIPMENT DATA								
22	BOILERS: - TOTAL NO.	22	6	20	1	3	3	22
23	- NO. OF WET BOTTOM	23			1			23
24	- NO. WITH FLY ASH REINJECTION	24						24
25	- NO. WITH MECHANICAL PRECIPITATORS	25	6	2		3		25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26	1		1	2		26
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27						27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	18.00	17.00	35.00		15.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30	85.00	85.00				30
31	TESTED, LOW - HIGH	31		85.10	85.30			31
32	ESTIMATED, LOW - HIGH	32	80.00				.95	32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/ DESIGN, LOW - HIGH	33	98.60			98.20		33
34	TESTED, LOW - HIGH	34	98.60					34
35	EST., LOW - HIGH	35	98.60			95.00		35
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36						36
37	TESTED, LOW - HIGH	37						37
38	ESTIMATED, LOW - HIGH	38						38
PLANT OPERATING DATA AND COST OF EQUIPMENT								
39	EST. TOTAL ANNUAL PLANT EMISSIONS 7/ PARTICULATE MATTER (1,000 TONS)	39	61.56	.35	.78		.03	39
40	SULFUR DIOXIDE (1,000 TONS)	40	165.03	2.05	57.64		1.09	40
41	NITROGEN OXIDES (1,000 TONS)	41	28.01	1.84	16.50		.68	41
42	STACKS: - TOTAL NO.	42	3	4	1	3	3	42
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	43	250.00	120.00	250.00	400.00	63.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	44					65.00	44
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	45	310.58	2.70	157.10		149.00	45
46	SOLD (1,000 TONS) 11/	46					196.00	46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	48						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50	920.00	145.91				50
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51	2,033.00		561.96			51
52	COMBINATION PRECIPITATORS (\$1,000) 4/	52						52
53	DESULFURIZATION SYSTEMS (\$1,000)	53						53
54	STACKS (\$1,000)	54	756.00	143.87	401.15		48.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	508.20	6.80	71.71			55
56	REVENUES FROM SALE OF ASH (\$1,000)	56						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						58
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	59	508.20	6.80	71.71			59
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60						60
WATER QUALITY CONTROL DATA								
61	COOLING WATER: SOURCE (CODES A, L, B, C, M, H & O EXPL. IN FOOTNOTES)	61	R OHIO	R SPRING	W	R WILLAMETTE	L LOTELA	61
62	AVERAGE RATE OF WITHDRAWAL (ICFS)	62	788.50	243.65	8.94		166.00	62
63	AVERAGE RATE OF DISCHARGE (ICFS)	63	788.50	240.72			166.00	63
64	AVE. RATE OF CONSUMPTION (ICFS), CALCULATED - REPORTED 14/	64	6.78	2.10	2.93		1.43	64
65	PEAK LOAD MONTH: SUMMER - WINTER 15/	65	JUL FEB	JUL FEB	AUG NOV		JUL JAN	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT OVERFLOW, SUMMER - WINTER	66	85.00 43.00	85.00 45.00			91.00 71.00	66
67	AT OUTFALL, SUMMER - WINTER	67	112.00 73.00	95.90 56.10			98.00 78.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (ICFS): SUMMER - WINTER	68	133,000.00	506.30				68
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O 16/	69	514,000.00	830.80				69
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70						70
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71	9.00	.20			.05	71
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	72	314.92	.40			.05	72
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	73		14.08				73
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74		2.85				74
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75	17.00 YES	7.13 YES	5.80 YES		.13 YES	75
76	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 17/	76	ST	YES	YES	PS	ST	76
77	RECEIVING WATER BODY	77	R OHIO	R SPRING	OT	PS	ST	77
78	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	78	11.50	10.35	9.00	6.00		78
79	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79	25.00	180.00	200.00			79
80	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	80			60.00	2.00		80
81		81						81
82		82	432,000.00					82
COOLING FACILITY DATA								
83	NO. OF UNITS AND CAPACITY (MM) USING 18/ ONCE THROUGH COOLING (FRESH)	83	6 1,100.28	7 155.00		1 33.80	2 61.00	83
84	ONCE THROUGH COOLING (SALINE)	84						84
85	COOLING PONDS(S)	85						85
86	COOLING TOWER(S)	86			1 212.80			86
87	COMBINATIONS 19/	87						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1953 1955	1909 1954	1970		1928 1952	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 20/	89	24.00	18.00	23.00		10.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (ICFS)	90	913.20	377.87	213.00		166.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (ICFS)	91	1,100.00	418.00			166.00	91
CAPITAL COSTS OF COOLING FACILITIES								
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	9,470.00	161.24			465.00	92
93	COOLING PONDS (\$1,000)	93						93
94	COOLING TOWERS (\$1,000)	94		23.99	513.05			94
ANNUAL COOLING WATER EXPENSES								
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	64.80	9.41	42.60		8.00	95
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	2.20	2.23	41.00		.10	96
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES								
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	27.30	16.17	10.40		10.00	97
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	101.00	7.73	3.60		.20	98

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10. INDIVIDUAL PLANT DATA, 1971

NAME OF UTILITY	1	FLORIDA POWER CORP.	FLOPIA POWER CORP.	FLORIDA POWER CORP.	FLORIDA POWER CORP.	FLORIDA POWER CORP.	1
NAME OF PLANT	2	84Y80R0	CRYSTAL RIVER	TURNER	HIGGINS	INGLIS	2
UTILITY-PLANT CODE	3	165500-0200	165500-0300	165500-0400	165500-0500	165500-0600	3
STATE	4	FLORIDA	FLORIDA	FLORIDA	FLORIDA	FLORIDA	4
COUNTY	5	PINELLAS	CITRUS	VOLUSIA	PINELLAS	LEVY	5
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	052	03	048	052	052	6
PLANT CAPACITY (MW)	7	51.30	964.30	201.60	138.00	53.80	7
ANNUAL GENERATION (MWH) 3/	8	213,300	4,191,700	888,000	716,400	171,400	8
PLANT HEAT RATE (BTU/KWH) 3/	9		9,758	11,849	12,076	14,780	9
AIR QUALITY CONTROL DATA							
FUEL CONSUMPTION DATA (ANNUAL)							
COAL: CONSUMPTION (1,000 TONS)	12		708.00				12
AVERAGE HEAT CONTENT (BTU/LB)	13		11,276				13
AVERAGE SULFUR CONTENT (%)	14		3.50				14
AVERAGE ASH CONTENT (%)	15		12.70				15
AVERAGE MOISTURE CONTENT (%)	16		9.20				16
OIL: CONSUMPTION (1,000 BARRELS)	17	487.00	3,991.00	281.00	1,002.00	128.00	17
AVERAGE HEAT CONTENT (BTU/GAL)	18	148,700	148,763	145,590	148,693	148,281	18
AVERAGE SULFUR CONTENT (%)	19	2.08	2.09	2.26	2.08	2.08	19
GAS: CONSUMPTION (1,000 MCF)	20			8,535.00	2,336.00	1,695.00	20
AVERAGE HEAT CONTENT (BTU/CU.FT.)	21			1,026	1,025	1,025	21
PLANT EQUIPMENT DATA							
BOILERS: - TOTAL NO.	22	3	2	5	3	5	22
- NO. OF WET BOTTOM	23						23
- NO. WITH FLY ASH REINJECTION	24						24
- NO. WITH MECHANICAL PRECIPITATORS	25						25
- NO. WITH ELECTROSTATIC PRECIPITATORS	26		1				26
- NO. WITH COMBINATION PRECIPITATORS 4/	27						27
- NO. WITH DESULFURIZATION SYSTEMS	28						28
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	15.00	20.00	15.00	25.00	10.00	18.00
MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30					20.00	14.00
TESTED, LOW - HIGH	31						16.00
ESTIMATED, LOW - HIGH	32						
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/	33			95.00			
DESIGN, LOW - HIGH	34						
TESTED, LOW - HIGH	35						
EST., LOW - HIGH	36						
DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	37						
TESTED, LOW - HIGH	38						
ESTIMATED, LOW - HIGH	39						
PLANT OPERATING DATA AND COST OF EQUIPMENT							
EST. TOTAL ANNUAL PLANT EMISSIONS 7/	40						
PARTICULATE MATTER (1,000 TONS)	41	3.40	76.55	2.13	6.99	0.89	40
SULFUR DIOXIDE (1,000 TONS)	42	1.07	15.17	2.28	2.66	0.61	41
NITROGEN OXIDES (1,000 TONS)	43	2	2	6	3	3	42
STACKS: - TOTAL NO.	44	202.00	203.00	499.00	150.00	237.00	174.00
- HEIGHT (FEET), LOWEST - HIGHEST 8/	45						
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	46						
TOTAL ASH: COLLECTED (1,000 TONS) 10/	47						
SOLD (1,000 TONS) 11/	48						
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	49						
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	50						
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	51						
INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	52			750.00			
ELECTROSTATIC PRECIPITATORS (\$1,000)	53						
COMBINATION PRECIPITATORS (\$1,000) 4/	54						
DESULFURIZATION SYSTEMS (\$1,000)	55						
STACKS (\$1,000)	56	65.00	1,194.00	141.00	52.00	39.00	
ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						
REVENUES FROM SALE OF ASH (\$1,000)	58						
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	59						
REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	60						
TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	61						
TOTAL BYPRODUCT SALES REVENUES (\$1,000)	62						
WATER QUALITY CONTROL DATA							
COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	63	8 TAMPA	0 GULF OF MEXICO	L MONROE	8 TAMPA	R WITHLACOCHEE	63
AVERAGE RATE OF WITHDRAWAL (CFS)	64	188.00	1,448.00	319.00	351.00	173.00	64
AVERAGE RATE OF DISCHARGE (CFS)	65	188.00	1,448.00	319.00	351.00	173.00	65
AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	66	1.62	12.45	2.74	3.02	1.49	66
PEAK LOAD MONTH: JUL	67	JAN	JAN	JAN	JUL	JAN	67
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	68	90.00	87.00	92.00	90.00	86.00	68
AT OUTFALL, SUMMER - WINTER	69	96.00	91.00	99.00	97.00	93.00	69
AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	70						70
- WINTER	71						71
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OIS/	72						72
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	73						73
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	74						74
LIME (TONS), COOLING WATER - BOILER MAKEUP	75						75
ALUM (TONS), COOLING WATER - BOILER MAKEUP	76						76
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	77						77
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	78						78
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 15/	79	PS	ST	ST	ST	ST	79
RECEIVING WATER BODY	80						80
POND DISCHARGE 16/	81						81
BOILER BLOWDOWN - ASH SETTLING	82						82
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	83						83
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	84						84
COOLING FACILITY DATA							
NO. OF UNITS AND CAPACITY (MW) USING 17/	85	3	2	4	3	3	85
ONCE THROUGH COOLING (FRESH)	86						86
ONCE THROUGH COOLING (SALINE)	87						87
COOLING POND(S)	88						88
COOLING TOWER(S)	89						89
COMBINATION(S)	90						90
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 22/	91	1941	1940	1966	1959	1951	1954
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	92	10.00	10.00	10.00	10.00	10.00	10.00
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	93	188.00	1,448.00	319.00	351.00	173.00	173.00
CAPITAL COSTS OF COOLING FACILITIES							
ONCE THROUGH COOLING SYSTEMS (\$1,000)	94	345.00	5,872.00	674.00	916.00	409.00	
COOLING PONDS (\$1,000)	95						
COOLING TOWERS (\$1,000)	96						
ANNUAL COOLING WATER EXPENSES							
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	5.00	6.00	1.60	9.00	5.00	
COST OF CHEMICAL ADDITIVES (\$1,000)	98	1.00	46.00	1.40	2.10	5.00	
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	99	10.00	54.00	16.70	15.00	10.00	
COST OF CHEMICAL ADDITIVES (\$1,000)	100	2.00	65.00	7.00	6.20	1.00	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	FLOPIA POWER CORP.	FLOPIA POWER CORP.	FLORIDA POWER & LIGHT CO.	FLORIDA POWER & LIGHT CO.	FLORIDA POWER & LIGHT CO.
2	NAME OF PLANT	2	BARTON	SUNANNEE	CAPE KENNEDY	CUTLER	FOPT MYERS
3	UTILITY-PLANT CODE	3	165500-0800	165500-0900	166500-0100	166500-0200	166500-0400
4	STATE	4	FLORIDA	FLORIDA	FLORIDA	FLORIDA	FLORIDA
5	COUNTY	5	PINELLAS	SUNANNEE	BREVARD	OAK	LEE
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCES REGION NO. 2/	6	052 03	049 03	048 03	050 03	051 03
7	PLANT CAPACITY (MW)	7	494.40	147.00	804.00	351.50	558.10
8	ANNUAL GENERATION (MWH) 3/	8	3,073,900	912,200	4,535,900	1,310,500	2,572,600
9	PLANT HEAT RATE (BTU/KWH) 4/	9	9,700	11,291	9,746	11,870	9,723
10	AIR QUALITY CONTROL DATA						
11	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)	12					
13	AVERAGE HEAT CONTENT (BTU/LB)	13					
14	AVERAGE SULFUR CONTENT (%)	14					
15	AVERAGE ASH CONTENT (%)	15					
16	AVERAGE MOISTURE CONTENT (%)	16					
17	OIL: CONSUMPTION (1,000 BARRELS)	17	4,265.00	1,002.00	4,423.00	584.00	3,972.00
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	148,890	148,685	148,726	146,117	149,927
19	AVERAGE SULFUR CONTENT (%)	19	2.08	2.10	1.61	1.13	1.26
20	GAS: CONSUMPTION (1,000 CU.FT.)	20	3,065.00	3,910.00	16,580.00	11,974.00	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,026	1,033	1,000	1,000	
22	PLANT EQUIPMENT DATA						
23	BOILERS: - TOTAL NO.	23	3	3	2	4	2
24	- NO. OF WET BOTTOM	24					
25	- NO. WITH FLY ASH REINJECTION	25			2	4	1
26	- NO. WITH MECHANICAL PRECIPITATORS	26			2	4	1
27	- NO. WITH ELECTROSTATIC PRECIPITATORS	27					
28	- NO. WITH COMBINATION PRECIPITATORS	28					
29	- NO. WITH DESULFURIZATION SYSTEMS	29					
30	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER	30	2.50	7.00	13.00	18.00	10.00
31	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	31			84.00	10.00	20.00
32	TESTED, LOW - HIGH	32				88.00	14.00
33	ESTIMATED, LOW - HIGH	33			84.00	88.00	84.00
34	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	34					
35	TESTED, LOW - HIGH	35					
36	EST., LOW - HIGH	36					
37	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	37					
38	TESTED, LOW - HIGH	38					
39	ESTIMATED, LOW - HIGH	39					
40	PLANT OPERATING DATA AND COST OF EQUIPMENT						
41	EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	41	.72	.17	.12	.01	.27
42	SULFUR DIOXIDE (1,000 TONS)	42	29.76	7.06	23.89	2.21	16.79
43	NITROGEN OXIDES (1,000 TONS)	43	10.00	2.97	12.99	3.62	8.76
44	STACKS: - TOTAL NO.	44	3	3	2	3	2
45	- HEIGHT (FEET), LOWEST - HIGHEST	45	300.00	110.00	135.00	397.00	150.00
46	COMBUSTION CYCLE ADDITIVES (1,000 TONS)	46	.60	.10	.10	.10	.20
47	TOTAL ASH: COLLECTED (1,000 TONS)	47	.20	.20	.10	.10	.20
48	SOLID (1,000 TONS)	48	.20	.20	.10	.10	.20
49	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	49					
50	EQUIVALENT OF ACID COLLECTED (1,000 TONS)	50					
51	ELEMENTAL AND EQUIVALENT OF ACID SOLID (1,000 TONS)	51					
52	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	52			366.10	309.60	
53	ELECTROSTATIC PRECIPITATORS (\$1,000)	53					
54	COMBINATION PRECIPITATORS (\$1,000)	54					
55	DESULFURIZATION SYSTEMS (\$1,000)	55					
56	STACKS (\$1,000)	56	480.00	71.00	839.60	155.90	188.30
57	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57	5.00	3.00	93.90	18.90	21.40
58	REVENUES FROM SALE OF ASH (\$1,000)	58	35.00		10.00		4.50
59	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	59					
60	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	60					
61	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000)	61	5.00	3.00	93.90	18.90	21.40
62	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	62	35.00		10.00		4.50
63	WATER QUALITY CONTROL DATA						
64	COOLING WATER: SOURCE (CODES P, L, B, C, W, M & O EXPL. IN FOOTNOTES)	64	B TAMPA	P SUNANNEE	R INDIAN	S BISCAYNE	R CALOOSAHATCHEE
65	AVERAGE RATE OF WITHDRAWAL (CFD)	65	809.00	268.00	1,165.00	354.00	794.00
66	AVERAGE RATE OF DISCHARGE (CFD)	66	809.00	268.00	1,165.00	354.00	794.00
67	AVERAGE RATE OF CONSUMPTION (CFD), CALCULATED - REPORTED	67	6.96	2.30	10.02	3.04	6.83
68	PEAK LOAD MONTH: JUL	68	JUL	JUL	AUG	AUG	JAN
69	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	69	90.00	70.00	81.00	63.00	92.00
70	AT OUTFALL, SUMMER - WINTER	70	96.00	76.00	86.00	68.00	92.00
71	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFD): SUMMER - WINTER	71			6,429.00		
72	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OHS	72			6,429.00		
73	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	73					
74	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	74	.37	.23	.02	.85	1.38
75	LIME (TONS), COOLING WATER - BOILER MAKEUP	75			.06	66.34	174.89
76	ALUM (TONS), COOLING WATER - BOILER MAKEUP	76			2.60	67.74	45.00
77	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	77			8.44	8.44	15.00
78	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	78	YES	YES	YES	YES	YES
79	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT	79	ST	ST	ST	ST	ST
80	RECEIVING WATER BODY	80					
81	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	81	5.50	5.50	8.00	7.50	7.50
82	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	82	200.00	200.00			
83	VOLUME (1,000 CU.FT./YR), BOILER BLOWDOWN - ASH SETTLING	83			4,690.00	673.00	1,500.00
84	COOLING FACILITY DATA						
85	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	85	3	3	2	4	2
86	ONCE THROUGH COOLING (SALINE)	86					
87	COOLING PONDS(S)	87					
88	COOLING TOWER(S)	88					
89	COMBINATION(S)	89					
90	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	90	1958	1963	1953	1956	1965
91	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST	91	10.00	10.00	10.00	14.10	18.10
92	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFD)	92	809.00	268.00	1,165.00	354.00	794.00
93	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFD)	93	809.00	268.00	1,165.00	354.00	794.00
94	CAPITAL COSTS OF COOLING FACILITIES						
95	ONCE THROUGH COOLING SYSTEMS (\$1,000)	95	3,913.00	1,254.00	1,849.30	2,134.80	1,016.60
96	COOLING PONDS (\$1,000)	96					
97	COOLING TOWERS (\$1,000)	97					
98	ANNUAL COOLING WATER EXPENSES						
99	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	99	1.00	7.00	51.90	56.90	16.20
100	COST OF CHEMICAL ADDITIVES (\$1,000)	100	1.40		13.90	3.70	2.20
101	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
102	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	102	13.00	18.00	40.20	21.00	39.10
103	COST OF CHEMICAL ADDITIVES (\$1,000)	103	13.00	1.20	15.90	5.10	34.85

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	FLORIDA POWER & LIGHT CO.	FLORIDA POWER & LIGHT CO.	FLORIDA POWER & LIGHT CO.	FLORIDA POWER & LIGHT CO.	FLORIDA POWER & LIGHT CO.
2		2					
3	NAME OF PLANT	3	LAUDERDALE	MIAMI	PORT EVERGLADES	PALATKA	RIVERIA
4	UTILITY-PLANT CODE	4	166500-0500	166500-0600	166500-0900	166500-1000	166500-1100
5	STATE	5	FLORIDA	FLORIDA	FLORIDA	FLORIDA	FLORIDA
6	COUNTY	6	BROWARD	DADE	BROWARD	PUTNAM	PALM BEACH
7	WATER QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	7	050 03	050 03	050 03	049 03	050 03
8	PLANT CAPACITY (MW)	8	312.50	46.00	1,254.60	109.50	739.60
9	ANNUAL GENERATION (MMH) 3/	9	1,488,800	184,100	7,334,300	577,600	3,603,200
10	PLANT HEAT RATE (BTU/KWH) 4/	10	10,705	13,945	10,003	11,264	10,308
11		11					

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	12					
13	AVERAGE HEAT CONTENT (BTU/LB)	13					
14	AVERAGE SULFUR CONTENT (%)	14					
15	AVERAGE ASH CONTENT (%)	15					
16	AVERAGE MOISTURE CONTENT (%)	16					
17	OIL: CONSUMPTION (1,000 BARRELS)	17	936.00	7.00	7,415.00	923.00	3,230.00
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	147,647	149,643	146,949	148,455	147,099
19	AVERAGE SULFUR CONTENT (%)	19	1.51	1.59	1.26	2.16	1.27
20	GAS: CONSUMPTION (1,000 MCF)	20	10,135.00	2,526.00	27,612.00	751.00	17,187.00
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,000	1,000	1,000	1,000	1,000

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	22	2	2	4	2	5
23	- NO. OF WET BOTTOM	23					
24	- NO. WITH FLY ASH REINJECTION	24		2	4		5
25	- NO. WITH MECHANICAL PRECIPITATORS	25		2	4		5
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26					
27	- NO. WITH COMBINATION PRECIPITATORS 5/	27					
28	- NO. WITH DESULFURIZATION SYSTEMS	28					
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 6/	29	14.00	15.00	10.00	10.00	15.00
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30		88.00	85.00	88.00	78.50
31	TESTED, LOW - HIGH	31					
32	ESTIMATED, LOW - HIGH	32		88.00	85.00	88.00	78.50
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 7/ DESIGN, LOW - HIGH	33					
34	TESTED, LOW - HIGH	34					
35	EST., LOW - HIGH	35					
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36					
37	TESTED, LOW - HIGH	37					
38	ESTIMATED, LOW - HIGH	38					

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS: 2/ PARTICULATE MATTER (1,000 TONS)	39	.16	.16	.16	.16	.07
40	SULFUR DIOXIDE (1,000 TONS)	40	4.74	.04	31.35	6.69	13.76
41	NITROGEN OXIDES (1,000 TONS)	41	4.04	.51	21.73	2.18	10.47
42	STACKS: - TOTAL NO.	42	2	2	4	1	4
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	43	151.00	151.00	343.00	150.00	298.00
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	44					
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	45					
46	SOLO (1,000 TONS) 11/	46					
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47					
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	48					
49	ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	49					
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50		42.20	767.90		325.60
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51					
52	COMBINATION PRECIPITATORS (\$1,000) 14/	52					
53	DESULFURIZATION SYSTEMS (\$1,000)	53					
54	STACKS (\$1,000)	54		40.40	1,347.50	35.20	458.40
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	19.30	5.80	61.10	20.30	39.30
56	REVENUES FROM SALE OF ASH (\$1,000)	56	4.00		18.60		38.50
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57					
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58					
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 15/	59	19.30	5.80	61.10	20.30	39.30
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60	4.00		18.60		38.50

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, H, M & O EXPL. IN FOOTNOTES)	61	O DANIA CANAL	R MIAMI	L MABLE	R ST. JOHN'S	L WORTH
62	AVERAGE RATE OF WITHDRAWAL (CFSI)	62	456.00	61.00	1,831.00	160.00	945.00
63	AVERAGE RATE OF DISCHARGE (CFSI)	63	456.00	61.00	1,831.00	160.00	945.00
64	AVERAGE RATE OF CONSUMPTION (CFSI), CALCULATED - REPORTED 16/	64	3.92	.52	15.75	1.38	8.13
65	PEAK LOAD MONTH: SUMMER - WINTER 17/	65	AUG JAN	AUG JAN	AUG JAN	AUG JAN	AUG JAN
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	98.00 83.00	89.00 63.00	91.00 79.00	90.00 64.00	89.00 77.00
67	AT OUTFALL, SUMMER - WINTER	67	102.00 87.00	116.00 101.00	104.00 91.00	106.00 77.00	104.00 90.00
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFSI): SUMMER - WINTER	68		199.00			
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, 18/	69					
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70		.26		.26	.72
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71		90.00	365.63		109.38
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	72		29.50		.40	
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	73		3.12		.05	
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74	21.50	1.83	13.00	9.35	16.03
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75	YES	YES	YES	YES	YES
76	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 19/	76	ST	PS	ST	ST	ST
77	RECEIVING WATER BODY	77					
78	POND DISCHARGE 20/	78	7.50		7.50		7.50
79	BOILER BLOWDOWN - ASH SETTLING	79					
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80					
81	VOLUME (1,000 CU.FT./YR), BOILER BLOWDOWN	81					
82	- ASH SETTLING	82	250.00		1,600.00		400.00

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING: 21/	83	2	1	4	2	4
84	ONCE THROUGH COOLING (FRESH)	84	312.50	46.00	1,254.60	109.50	739.59
85	ONCE THROUGH COOLING (SALINE)	85					
86	COOLING PONDS (S)	86					
87	COMBINATION 22/	87					
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1957 1958	1948	1960 1965	1951 1956	1946 1963
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 23/	89	13.20	19.20	13.10 14.10	13.30 18.60	10.30 17.00
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFSI)	90	516.00	71.75	1,940.00	186.00	1,124.00
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFSI)	91	532.00	81.30	1,996.00	200.00	1,200.00

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92		847.60	5,170.60	620.30	5,093.70
93	COOLING PONDS (\$1,000)	93					
94	COOLING TOWERS (\$1,000)	94					

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	23.40	18.00	28.90	12.30	40.50
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	3.00	.50	1.70	1.50	2.20

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	33.20	11.80	42.90	15.50	68.20
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	2.60	.40	58.00	1.10	13.40

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	FLORIDA POWER & LIGHT CO.	FLORIDA POWER & LIGHT CO.	GARLAND MUNICIPAL UTILITIES	GARLAND MUNICIPAL UTILITIES	GEORGIA POWER CO.	1
2		2						2
3		3						3
4	NAME OF PLANT	4	SANFORD NEW	TURKEY POINT	NEWMAN	OLINGER	ARKWRIGHT	4
5	UTILITY-PLANT CODE	5	166500-1200	166500-1300	177500-0100	177500-0300	179000-0100	5
6	STATE	6	FLORIDA	FLORIDA	TEXAS	TEXAS	GEORGIA	6
7	COUNTY	7	VOLUSIA	DADE	DALLAS	COLLIN	8188	7
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	8	048 03	050 03	215 12	215 12	054 03	8
9	PLANT CAPACITY (MW)	9	156.35	804.10	96.50	188.64	181.00	9
10	ANNUAL GENERATION (MWH) 3/	10	838,100	4,600,400	264,300	348,900	1,063,100	10
11	PLANT HEAT RATE (BTU/KWH) 3/	11	10,234	9,812	12,669	10,886	12,717	11
AIR QUALITY CONTROL DATA								
FUEL CONSUMPTION DATA (ANNUAL)								
12	COAL: CONSUMPTION (1,000 TONS)	12					199.00	12
13	AVERAGE HEAT CONTENT (BTU/LB)	13					11,632	13
14	AVERAGE SULFUR CONTENT (%)	14					1.61	14
15	AVERAGE ASH CONTENT (%)	15					14.78	15
16	AVERAGE MOISTURE CONTENT (%)	16					6.31	16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	1,163.00	4,434.00	4.24			17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	148,221	148,726	146,000			18
19	AVERAGE SULFUR CONTENT (%)	19	2.22	2.22	.50			19
20	GAS: CONSUMPTION (1,000 MCF)	20	1,339.00	17,459.00	2,861.14	4,410.60	8,465.00	20
21	AVERAGE HEAT CONTENT (BTU/CU. FT.)	21	1,000	1,000	1,018	1,010	1,033	21
PLANT EQUIPMENT DATA								
22	BOILERS: - TOTAL NO.	22	1	2	5	2	4	22
23	- NO. OF WET BOTTOM	23						23
24	- NO. WITH FLY ASH REINJECTION	24		2				24
25	- NO. WITH MECHANICAL PRECIPITATORS	25		2				25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26						26
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27					3	27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	14.00	10.00	7.00	8.00	8.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30		84.00				30
31	TESTED, LOW - HIGH	31						31
32	ESTIMATED, LOW - HIGH	32						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/ DESIGN, LOW - HIGH	33		84.00				33
34	TESTED, LOW - HIGH	34						34
35	EST., LOW - HIGH	35						35
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36					81.80	36
37	TESTED, LOW - HIGH	37					80.00	37
38	ESTIMATED, LOW - HIGH	38						38
PLANT OPERATING DATA AND COST OF EQUIPMENT								
39	EST. TOTAL ANNUAL PLANT EMISSIONS 7/	39						39
40	PARTICULATE MATTER (1,000 TONS)	40		.20	.12			40
41	SULFUR DIOXIDE (1,000 TONS)	41		8.66	33.02	.01		41
42	NITROGEN OXIDES (1,000 TONS)	42		2.83	13.18	.57	.86	42
43	STACKS: - TOTAL NO.	43						43
44	- HEIGHT (FEET), LOWEST - HIGHEST 8/	44						44
45	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	45						45
46	TOTAL ASH: COLLECTED (1,000 TONS) 10/	46						46
47	SOLD (1,000 TONS) 11/	47						47
48	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	48						48
49	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	49						49
50	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	50						50
51	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	51						51
52	ELECTROSTATIC PRECIPITATORS (\$1,000)	52						52
53	COMBINATION PRECIPITATORS (\$1,000) 4/	53						53
54	DESULFURIZATION SYSTEMS (\$1,000)	54						54
55	STACKS (\$1,000)	55	250.30		66.00			55
56	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	56	20.80			65.40		56
57	REVENUES FROM SALE OF ASH (\$1,000)	57	3.70	60.60			129.00	57
58	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	58		13.00			.09	58
59	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	59						59
60	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	60	20.80	60.60			129.00	60
61	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	61	3.70	13.00			.09	61
WATER QUALITY CONTROL DATA								
62	COOLING WATER: SOURCE (CODES R, L, B, C, N, M & O EXPL. IN FOOTNOTES)	62	R ST. JOHN'S	B BISCAYNE	M	L LAVON	R MULGEE	62
63	AVERAGE RATE OF WITHDRAWAL (CFD)	63	254.00	1,678.00		.90	135.60	63
64	AVERAGE RATE OF DISCHARGE (CFD)	64	241.00	1,678.00			135.49	64
65	AVE. RATE OF CONSUMPTION (CFD), CALCULATED - REPORTED 14/	65	2.18	14.43		.90	1.17	65
66	PEAK LOAD MONTH: SUMMER - WINTER 15/	66	AUG	JAN			AUG	66
67	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	67	93.00	71.00	91.00	82.00	89.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFD): SUMMER - WINTER	68	104.00	82.00	105.00	97.00	101.00	68
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O 16/	69						69
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70						70
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71	.04	.15		.45	.15	71
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	72		76.24		5.85	7.80	72
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	73	7.53	59.05			1.80	73
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74	2.75	2.25				74
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75	3.00	.35	18.91	4.00	3.00	75
76	SEWAGE DISPOSAL: METHOD (S, ST, SW, OT) 17/	76	ST	YES	YES	YES	YES	76
77	RECEIVING WATER BODY	77						77
78	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	78		7.50				78
79	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79						79
80	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	80						80
81		81						81
82		82		800.00			7,148.52	82
COOLING FACILITY DATA								
83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	83	1	156.35				83
84	ONCE THROUGH COOLING (SALINE)	84			2	804.10		84
85	COOLING PONDS (S)	85						85
86	COOLING TOWER(S)	86						86
87	COMBINATIONS 22/	87			5	96.50		87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88						88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 23/	89	1959	1967	1968	1957	1963	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFD)	90	11.40	14.10	12.00	14.50	12.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFD)	91	258.00	1,226.00		207.10	290.00	91
CAPITAL COSTS OF COOLING FACILITIES								
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92		720.90			485.00	92
93	COOLING PONDS (\$1,000)	93						93
94	COOLING TOWERS (\$1,000)	94				407.80		94
ANNUAL COOLING WATER EXPENSES								
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95		13.80	12.50	27.00	34.00	95
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96		.40	5.00	.60	.30	96
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES								
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97		22.00	27.60	14.00	11.60	97
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98		2.30	17.00	2.70	1.20	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

NAME OF UTILITY	1	GEORGIA POWER CO.	GEORGIA POWER CO.	GEORGIA POWER CO.	GEORGIA POWER CO.	GEORGIA POWER CO.	1
NAME OF PLANT	2	ATKINSON	HAMMOND	HARLEE BRANCH	MCOONOUGH	MCMANUS	2
UTILITY-PLANT CODE	3	179000-0200	179000-0900	179000-1000	179000-1100	179000-1500	3
STATE	4	GEORGIA	GEORGIA	GEORGIA	GEORGIA	GEORGIA	4
COUNTY	5	C088	FLOYD	PUTNAM	C088	GLYNN	5
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	056 03	055 03	054 03	056 03	049 03	6
PLANT CAPACITY (MW)	7	258.00	953.00	1,746.00	598.00	144.00	7
ANNUAL GENERATION (MWH) 3/	8	1,526,800	3,559,500	8,211,600	3,398,500	800,900	8
PLANT HEAT RATE (BTU/KWH) 4/	9	14,412	11,182	10,112	9,578	11,090	9
AIR QUALITY CONTROL DATA							
FUEL CONSUMPTION DATA (ANNUAL)							
COAL: CONSUMPTION (1,000 TONS)	12	143.00	1,680.26	3,426.00	1,164.00	323.00	12
AVERAGE HEAT CONTENT (BTU/LB)	13	11,632	11,608	11,716	11,573	11,243	13
AVERAGE SULFUR CONTENT (%)	14	1.01	2.40	1.17	1.05	1.92	14
AVERAGE ASH CONTENT (%)	15	13.40	10.36	12.95	13.82	15.33	15
AVERAGE MOISTURE CONTENT (%)	16	6.79	8.55	6.29	6.93	7.45	16
OIL: CONSUMPTION (1,000 BARRELS)	17		15.00	9.00		220.00	17
AVERAGE HEAT CONTENT (BTU/GAL)	18		140,000	136,000		147,285	18
AVERAGE SULFUR CONTENT (%)	19		.30	.20		2.30	19
GAS: CONSUMPTION (1,000 MCF)	20	17,708.00			4,909.00		20
AVERAGE HEAT CONTENT (BTU/CU.F.T.)	21	1,031			1,032		21
PLANT EQUIPMENT DATA							
BOILERS: - TOTAL NO.	22	5	4	4	2	2	22
- NO. OF WET BOTTOM	23			4	2	1	23
- NO. WITH FLY ASH REINJECTION	24						24
- NO. WITH MECHANICAL PRECIPITATORS	25		1				25
- NO. WITH ELECTROSTATIC PRECIPITATORS	26		4	4	2	2	26
- NO. WITH COMBINATION PRECIPITATORS 4/	27	5					27
- NO. WITH DESULFURIZATION SYSTEMS	28						28
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29		18.00 23.00	18.00 20.00	18.00	17.00 19.00	29
MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30						30
TESTED, LOW - HIGH	31						31
ESTIMATED, LOW - HIGH	32						32
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/	33						33
DESIGN, LOW - HIGH	34		90.00 98.20	98.70	98.00	98.00	34
TESTED, LOW - HIGH	35	59.00 87.00	92.80 98.20	98.00 98.00	91.00 96.00	99.13 99.32	35
EST., LOW - HIGH	36	60.00 85.00	90.00 96.00		91.00 96.00	98.00	36
DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	37						37
TESTED, LOW - HIGH	38						38
ESTIMATED, LOW - HIGH	39						39
PLANT OPERATING DATA AND COST OF EQUIPMENT							
EST. TOTAL ANNUAL PLANT EMISSIONS 7/	40						40
PARTICULATE MATTER (1,000 TONS)	41	2.49	9.21	19.36	6.88	1.32	41
SULFUR DIOXIDE (1,000 TONS)	42	2.83	79.04	78.57	23.96	13.90	42
NITROGEN OXIDES (1,000 TONS)	43	4.74	25.20	51.39	18.42	3.16	43
STACKS: - TOTAL NO.	44	5	3	4	4	1	44
- HEIGHT (FEET), LOWEST - HIGHEST 8/	45	180.00	200.00 500.00	300.00 500.00	229.00	185.00	45
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	46						46
TOTAL ASH: COLLECTED (1,000 TONS) 10/	47	19.00	160.60	430.60	160.00	48.30	47
SOLO (1,000 TONS) 11/	48				37.00		48
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	49						49
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	50						50
ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	51						51
INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	52		2,567.00				52
ELECTROSTATIC PRECIPITATORS (\$1,000)	53						53
COMBINATION PRECIPITATORS (\$1,000) 4/	54						54
DESULFURIZATION SYSTEMS (\$1,000)	55		1,280.00	1,083.00	209.00	66.30	55
STACKS (\$1,000)	56	69.00	140.40	619.00	9.00		56
ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						57
REVENUES FROM SALE OF ASH (\$1,000)	58						58
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	59						59
REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	60						60
TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	61	69.00	140.40	619.00	209.00	66.30	61
TOTAL BYPRODUCT SALES REVENUES (\$1,000)	62				9.00		62
WATER QUALITY CONTROL DATA							
COOLING WATER: SOURCE (CODES R, L, B, C, H, M & O EXPL. IN FOOTNOTES)	63	R CHATTAHOOCHEE	R COOSA	L SINCLAIR	R CHATTAHOOCHEE	R TURTLE	63
AVERAGE RATE OF WITHDRAWAL (CFS)	64	668.00	605.80	1,409.00	608.00	242.00	64
AVERAGE RATE OF DISCHARGE (CFS)	65	668.00	605.80	1,409.00	608.00	242.00	65
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	66	5.74	5.21	12.12	5.23	2.08	66
PEAK LOAD MONTH: 15/	67	JUL	AUG	AUG	JUL	AUG	67
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	68	66.00 50.00	77.00 53.00	97.00 71.00	66.00 50.00	88.00 70.00	68
AT OUTFALL, SUMMER - WINTER	69	84.00 60.00	94.00 70.00	97.00 71.00	84.00 60.00	107.00 97.00	69
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	70		6,144.00 14,728.00	1,615.00 1,473.00			70
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, 016/	71						71
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	72		.42	.08		.05	72
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	73		.47	6.23	76.00	.16	73
LIME (TONS), COOLING WATER - BOILER MAKEUP	74					9.29	74
ALUM (TONS), COOLING WATER - BOILER MAKEUP	75			161.00	180.00		75
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	76	105.00	58.50	.90	32.00 4.50	137.00 144.00	76
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	77	YES	YES	YES	YES	YES	77
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 17/	78	ST	ST	SW	OT	ST	78
RECEIVING WATER BODY	79						79
POND DISCHARGE 18/	80		10.00	9.40	4.60	7.50	80
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	81			15.00	8.00	17.20	81
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	82		500,000.00	440,200.00	172,150.00		82
COOLING FACILITY DATA							
NO. OF UNITS AND CAPACITY (MW) USING 19/	83	4 240.00	3 375.00	4 1,746.00	2 490.00	2 144.00	83
ONCE THROUGH COOLING (FRESH)	84		1 578.00				84
ONCE THROUGH COOLING (SALINE)	85						85
COOLING POND(S)	86						86
COOLING TOWER(S)	87						87
COMBINATION 20/	88						88
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	89	1930 1948	1954 1970	1965 1969	1963 1964	1950 1959	89
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 21/	90		10.00 24.00	16.70 18.50		14.50 14.90	90
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	91		853.00 699.00	1,763.00 1,763.00	608.00	216.00	91
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	92						92
CAPITAL COSTS OF COOLING FACILITIES							
ONCE THROUGH COOLING SYSTEMS (\$1,000)	93				811.50		93
COOLING PONDS (\$1,000)	94						94
COOLING TOWERS (\$1,000)	95						95
ANNUAL COOLING WATER EXPENSES							
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	96	35.00	53.50	3.70	68.00	22.90	96
COST OF CHEMICAL ADDITIVES (\$1,000)	97	15.00	8.00	4.50	19.00	1.60	97
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	98	57.00	91.30	204.00	124.00	36.90	98
COST OF CHEMICAL ADDITIVES (\$1,000)	99	3.00	62.20	47.40	3.00	8.30	99

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	GEORGIA POWER CO.	2	GEORGIA POWER CO.	3	GEORGIA POWER CO.	4	GLENDALE PUBLIC SERVICE DEPT.	5	GRAND RIVER DAM AUTHORITY
2		2		3		4		5		6	
3	NAME OF PLANT	3	MITCHELL	4	YATES	5	BOWEN	6	GLENDALE	7	CHOUTEAU
4	UTILITY-PLANT CODE	4	179000-2500	5	179000-2600	6	179000-2800	7	182500-0100	8	188500-0100
5	STATE	5	GEORGIA	6	GEORGIA	7	GEORGIA	8	CALIFORNIA	9	OKLAHOMA
6	COUNTY	6	DOUGHERTY	7	COWETA	8	BARTOW	9	LOS ANGELES	10	HAYES
7	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	7	059	03	056	03	032	17	024	18	166
8	PLANT CAPACITY (MW)	8	218.00	9	680.00	10	806.00	11	163.00	12	56.25
9	ANNUAL GENERATION (MWH) 3/	9	1,110,400	10	3,717,900	11	793,900	12	443,300	13	213,500
10	PLANT HEAT RATE (BTU/KWH) 4/	10	10,814	11	10,927	12	12,574	13	12,315	14	
11		11		12		13		14		15	
AIR QUALITY CONTROL DATA											
FUEL CONSUMPTION DATA (ANNUAL)											
12	COAL: CONSUMPTION (1,000 TONS)	12	525.00	13	804.00	14	435.90	15		16	
13	AVERAGE HEAT CONTENT (BTU/LB)	13	11,413	14	11,698	15	11,461	16		17	
14	AVERAGE SULFUR CONTENT (%)	14	1.68	15	2.34	16	3.24	17		18	
15	AVERAGE ASH CONTENT (%)	15	14.40	16	11.01	17	10.41	18		19	
16	AVERAGE MOISTURE CONTENT (%)	16	7.20	17	8.26	18	9.90	19		20	
17	OIL: CONSUMPTION (1,000 BARRELS)	17	3.00	18		19	43.70	20	328.00	21	
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	136,000	19		20	136,000	21	148,800	22	
19	AVERAGE SULFUR CONTENT (%)	19	.30	20		21	.10	22	.46	23	
20	GAS: CONSUMPTION (1,000 MCF)	20		21	20,383.00	22		23	2,687.00	24	6,221.60
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21		22	1,027	23		24	1,048	25	1,025
PLANT EQUIPMENT DATA											
22	BOILERS: - TOTAL NO.	22	3	5	1	6	6	2		3	
23	- NO. OF WET BOTTOM	23		5				2		3	
24	- NO. WITH FLY ASH REINJECTION	24						2		3	
25	- NO. WITH MECHANICAL PRECIPITATORS	25		2				2		3	
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26	3	3	1			2		3	
27	- NO. WITH COMBINATION PRECIPITATORS 5/	27						2		3	
28	- NO. WITH DESULFURIZATION SYSTEMS	28						2		3	
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 6/	29	18.00	20.00	20.00	18.00	8.00	15.00		20.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30			78.00						
31	TESTED, LOW - HIGH	31									
32	ESTIMATED, LOW - HIGH	32									
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 7/ DESIGN, LOW - HIGH	33		98.00	98.30	98.60	98.00				
34	TESTED, LOW - HIGH	34	69.00	93.00	96.80	98.57					
35	EST., LOW - HIGH	35	80.00	95.00	97.80	98.20					
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36									
37	TESTED, LOW - HIGH	37									
38	ESTIMATED, LOW - HIGH	38									
PLANT OPERATING DATA AND COST OF EQUIPMENT											
39	EST. TOTAL ANNUAL PLANT EMISSIONS 7/ PARTICULATE MATTER (1,000 TONS)	39	5.34	1.30		.77	.06				
40	SULFUR DIOXIDE (1,000 TONS)	40	17.27	37.35	27.68	.51					
41	NITROGEN OXIDES (1,000 TONS)	41	4.73	16.10	4.02	1.25				1.21	
42	STACKS: - TOTAL NO.	42	2	3	1	6					
43	HEIGHT (FEET), LOWEST - HIGHEST 8/	43	115.00	211.00	175.00	1,000.00	60.00	100.00		150.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	44									
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	45	71.80	126.00	44.25						
46	SOLO (1,000 TONS) 11/	46									
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47									
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	48									
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49									
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50				1,154.00					
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51									
52	COMBINATION PRECIPITATORS (\$1,000) 4/	52									
53	DESULFURIZATION SYSTEMS (\$1,000)	53									
54	STACKS (\$1,000)	54				3,706.00				78.00	
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	103.00	157.30	11.00						
56	REVENUES FROM SALE OF ASH (\$1,000)	56									
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57									
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58									
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	59	108.00	157.30	14.70						
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60									
WATER QUALITY CONTROL DATA											
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R FLINT	R CHATTAHOOCHEE	R ETOWAH	W	R GRAND				
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	224.00	187.00	47.60	2.27	2.16				
63	AVERAGE RATE OF DISCHARGE (CFS)	63	223.80	187.00	11.50		1.52				
64	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	64	1.93	.20	1.61	2.27	.64				
65	PEAK LOAD MONTH: AUG	65	AUG	JAN	AUG	FEB	AUG	FEB			
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER 15/	66	84.00	83.00	92.00	45.00	53.00	112.00	80.00		
67	AT OUTFALL, SUMMER - WINTER	67	96.00	50.00	110.00	64.00	52.00	99.00	64.00		
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	68							1.49		
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D, O 16/	69							1.51		
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70	.07	.10	.25	12.50	.10		5.41		
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71	.15	.33	245.09	10.00			56.05		
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	72							5.95		
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	73							15.74	20.08	
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74							5.43	6.83	
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75	YES	YES	YES	YES	YES	YES	YES	YES	
76	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 17/	76	ST	OT	O	ASH POND					
77	POND DISCHARGE: PH, RECEIVING WATER BODY	77									
78	BOILER BLOWDOWN - ASH SETTLING	78	8.10	8.00	9.00						
79	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79	26.00	20.00	25.00						
80	VOLUME (1,000 CU.FT./YR.), BOILER BLOWDOWN	80									
81		81									
82		82	109,000.00	65,000.00							
COOLING FACILITY DATA											
83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	83	3	217.00	5	678.00					
84	ONCE THROUGH COOLING (SALINE)	84									
85	COOLING POND(S)	85									
86	COOLING TOWER(S)	86			1	806.00	4	163.00	4	25.00	
87	COMBINATION 18/	87							2	31.25	
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1948	1964	1950	1958	1971	1941	1964	1942	1950
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 19/	89	10.00	16.00		15.00			15.00		16.00
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90		312.00		875.00		575.00		300.00	75.66
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91		312.00		875.00					
CAPITAL COSTS OF COOLING FACILITIES											
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92									
93	COOLING PONDS (\$1,000)	93									
94	COOLING TOWERS (\$1,000)	94				3,735.00		1,125.00			
ANNUAL COOLING WATER EXPENSES											
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95			18.90			26.00			
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96									
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES											
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97									
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	.70	3.50				2.50			

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10: INDIVIDUAL PLANT DATA, 1971

1 NAME OF UTILITY	1-1 BURLINGTON ELEC. LIGHT DEPT.	GULF POWER CO.	GULF POWER CO.	GULF POWER CO.	GULF STATES UTILITIES CO.
2 NAME OF PLANT	3 MORAN	CRIST	SCHOLTZ	SMITH	LOUISIANA NO. 1
3 UTILITY-PLANT CODE	4 190000-0100	195000-0100	195000-0200	195000-0300	195500-0100
4 STATE	5 VERMONT	FLORIDA	FLORIDA	FLORIDA	LOUISIANA
5 COUNTY	6 CHITTENDEN	ESCAMBIA	JACKSON	BAY	EAST BATON ROUGE
6 AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	7 159 01	005 03	005 03	005 03	106 08
7 PLANT CAPACITY (MW)	8 30.00	651.00	98.00	340.00	253.00
8 ANNUAL GENERATION (MMH) 3/	9 81.800	3,117,200	430,900	1,754,600	1,374,700
9 PLANT HEAT RATE (BTU/KWH) 3/	10 16,476	11,096	12,470	10,140	
11					
AIR QUALITY CONTROL DATA					
FUEL CONSUMPTION DATA (ANNUAL)					
12 COAL: CONSUMPTION (1,000 TONS)	13 47.30	539.10	218.40	770.90	12
13 AVERAGE HEAT CONTENT (BTU/LB)	14 12,623	11,674	12,298	11,522	13
14 AVERAGE SULFUR CONTENT (%)	15 3.29	2.99	1.93	3.12	14
15 AVERAGE ASH CONTENT (%)	16 11.63	12.15	13.27	12.33	15
16 AVERAGE MOISTURE CONTENT (%)	17 4.74	8.07	5.48	10.46	16
17 OIL: CONSUMPTION (1,000 BARRELS)	18 141,254	140,500	140,500	149,667	17
18 AVERAGE HEAT CONTENT (BTU/GAL)	19 1.86	1.86	1.86	1.51	18
19 AVERAGE SULFUR CONTENT (%)	20 22.02	21,143.40	1,084	40,978.00	19
20 GAS: CONSUMPTION (1,000 MCF)	21 1,000	1,000			20
21 AVERAGE HEAT CONTENT (BTU/CU.FT.)					21
PLANT EQUIPMENT DATA					
22 BOILERS: - TOTAL NO.	23 3	6	2	2	11
23 - NO. OF WET BOTTOM	24 3				
24 - NO. WITH FLY ASH REINJECTION	25 3		2		
25 - NO. WITH MECHANICAL PRECIPITATORS	26 3	3		2	
26 - NO. WITH ELECTROSTATIC PRECIPITATORS	27				
27 - NO. WITH COMBINATION PRECIPITATORS 4/	28				
28 - NO. WITH DESULFURIZATION SYSTEMS	29				
29 EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	30 32.00	10.00 18.00	25.00	18.00	10.00
30 MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	31 96.50		84.50		
31 TESTED, LOW - HIGH	32 32.90		65.00		
32 ESTIMATED, LOW - HIGH	33 33.00				
33 ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/:	34	98.00 98.20		98.00	
34 DESIGN, LOW - HIGH	35				
35 TESTED, LOW - HIGH	36	99.10 99.40		96.60 98.60	
36 ESTIMATED, LOW - HIGH	37				
37 DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	38				
38 TESTED, LOW - HIGH					
39 ESTIMATED, LOW - HIGH					
PLANT OPERATING DATA AND COST OF EQUIPMENT					
39 EST. TOTAL ANNUAL PLANT EMISSIONS: 7/	40 3.06	4.43	8.62	1.87	39
40 PARTICULATE MATTER (1,000 TONS)	41 3.06	32.49	8.26	47.14	40
41 SULFUR DIOXIDE (1,000 TONS)	42 .36	9.29	1.97	6.95	41
42 NITROGEN OXIDES (1,000 TONS)	43 3	4	1	1	42
43 STACKS: - TOTAL NO.	44 130.00	125.00 450.00	150.00	200.00	150.50 167.00
44 - HEIGHT (FEET), LOWEST - HIGHEST 8/	45				
45 COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	46 5.90	65.20	22.27	93.48	
46 TOTAL ASH: COLLECTED (1,000 TONS) 10/	47				
47 SOLO (1,000 TONS) 11/	48				
48 TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	49				
49 EQUIVALENT OF ACIO COLLECTED (1,000 TONS) 12/	50				
50 ELEMENTAL AND EQUIVALENT OF ACIO SOLO (1,000 TONS)	51	54.00	1,674.00	106.00	589.00
51 INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	52				
52 ELECTROSTATIC PRECIPITATORS (\$1,000)	53				
53 COMBINATION PRECIPITATORS (\$1,000) 4/	54				
54 DESULFURIZATION SYSTEMS (\$1,000)	55				
55 STACKS (\$1,000)	56	24.00	766.90	58.10	107.50
56 ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57	44.00	127.30	35.60	84.80
57 REVENUES FROM SALE OF ASH (\$1,000)	58				
58 SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	59				
59 REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	60	44.00	127.50	35.80	85.00
60 TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/					
61 TOTAL BYPRODUCT SALES REVENUES (\$1,000)					
WATER QUALITY CONTROL DATA					
61 COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	62 L CHAMPLAIN	R ESCAMBIA	R APALACHICOLA	B NORTH	R MISSISSIPPI
62 AVERAGE RATE OF WITHDRAWAL (CFD)	63 38.70	653.00	181.00	392.00	2.52
63 AVERAGE RATE OF DISCHARGE (CFD)	64 37.40	653.00	181.00	392.00	1.79
64 AVE. RATE OF CONSUMPTION (CFD), CALCULATED - REPORTED 14/	65 .33	.80	1.56	3.37	.72
65 PEAK LOAD MONTH: 15/	66 OCT	FEB	AUG	FEB	AUG
66 MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	67 54.00 35.00	84.00 65.00	87.00 55.00	89.00 66.00	85.00 51.00
67 AT OUTFALL, SUMMER - WINTER	68 66.00 42.00	102.00 80.00	103.00 69.00	100.00 83.00	273,000.00 444,200.00
68 AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFD): SUMMER - WINTER	69	13,700.00	3,940.00	25,300.00	38,500.00
70 FREQUENCY OF TEMPERATURE MONITORING: C, H, O, 16/	71				
71 CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	72 .25	.45	1.50	.30	5.70
72 CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	73 12.35	10.05	1.00	10.21	990.11
73 LIME (TONS), COOLING WATER - BOILER MAKEUP	74				1,164.35
74 ALUM (TONS), COOLING WATER - BOILER MAKEUP	75				
75 CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	76				
76 OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	77	60.00 YES	YES	.15 YES	27.00 YES
77 SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 17/	78 ST	ST	ST	ST	OT
78 POND DISCHARGE: PH, RECEIVING WATER BODY	79				
79 SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80	5.10	7.00	7.50	
80 VOLUME (1,000 CU.FT./YR.), BOILER BLOWDOWN - ASH SETTLING	81	50.00	50.00	50.00	
82	82	125,134.00	168.00	68,000.00	
COOLING FACILITY DATA					
83 NO. OF UNITS AND CAPACITY (MW) USING: 18/	84 3 30.00	5 281.26	2 98.00	2 340.00	
85 ONCE THROUGH COOLING (FRESH)	86				
86 ONCE THROUGH COOLING (SALINE)	87				
87 COOLING POND(S)	88				
88 COOLING TOWER(S)	89				
89 COMBINATIONS 19/	90				
90 COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	91 1954	1945 370.00	1953	1965 1967	1938 1943
91 DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 20/	92 14.00	13.00	12.40	16.00	19.00
92 TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFD)	93 68.10	760.00	192.00	403.00	100.26
93 TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFD)	94 240.60	785.00	202.00	423.00	
CAPITAL COSTS OF COOLING FACILITIES					
92 ONCE THROUGH COOLING SYSTEMS (\$1,000)	93 141.00	2,097.60	576.30	1,069.50	
93 COOLING PONDS (\$1,000)	94				
94 COOLING TOWERS (\$1,000)		3,938.00			303.00
ANNUAL COOLING WATER EXPENSES					
95 OPERATION AND MAINTENANCE EXPENSES (\$1,000)	96 4.50	6.20	.50	3.80	1.00
96 COST OF CHEMICAL ADDITIVES (\$1,000)	97	27.10	.10	9.70	1.00
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES					
97 OPERATION AND MAINTENANCE EXPENSES (\$1,000)	98 3.00	34.30	14.30	33.30	434.00
98 COST OF CHEMICAL ADDITIVES (\$1,000)	99	3.00	2.40	1.50	287.00

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	GULF STATES UTILITIES CO.	GULF STATES UTILITIES CO.	GULF STATES UTILITIES CO.	GULF STATES UTILITIES CO.	GULF STATES UTILITIES CO.				
2	NAME OF PLANT	2	LOUISIANA NC. 2	NECHES	NELSON	SABINE	WILLOW GLEN				
3	UTILITY-PLANT CODE	3	195500-0200	195500-0300	195500-0400	195500-0500	195500-0600				
4	STATE	4	LOUISIANA	TEXAS	LOUISIANA	TEXAS	LOUISIANA				
5	COUNTY	5	EAST BATON ROUGE	JEFFERSON	CALCASIEU	ORANGE	18ERVILLE				
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	08	12	08	12	08				
7	PLANT CAPACITY (MW)	7	175.00	452.27	982.27	952.00	994.36				
8	ANNUAL GENERATION (MWH) 3/	8	758,900	1,984,800	4,482,600	5,275,500	4,703,400				
9	PLANT HEAT RATE (BTU/KWH) 3/	9	12,689	11,338	10,297	9,967	10,117				
AIR QUALITY CONTROL DATA											
FUEL CONSUMPTION DATA (ANNUAL)											
12	COAL: CONSUMPTION (1,000 TONS)	12									
13	AVERAGE HEAT CONTENT (BTU/LB)	13									
14	AVERAGE SULFUR CONTENT (%)	14									
15	AVERAGE ASH CONTENT (%)	15									
16	AVERAGE MOISTURE CONTENT (%)	16									
17	OIL: CONSUMPTION (1,000 BARRELS)	17	16.75		1.43		3.00				
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	149,667		140,000		140,000				
19	AVERAGE SULFUR CONTENT (%)	19	1.42		.25		.30				
20	GAS: CONSUMPTION (1,000 MCF)	20	8,767.00	22,123.00	42,918.00	52,126.00	44,380.00				
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,084	1,017	1,075	1,009	1,072				
PLANT EQUIPMENT DATA											
22	BOILERS: - TOTAL NO.	22	3	6	4	3	4				
23	- NO. OF WET BOTTOM	23									
24	- NO. WITH FLY ASH REINJECTION	24									
25	- NO. WITH MECHANICAL PRECIPITATORS	25									
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26									
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27									
28	- NO. WITH DESULFURIZATION SYSTEMS	28									
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	10.00	15.00	7.00	10.00	7.00				
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30									
31	TESTED, LOW - HIGH	31									
32	ESTIMATED, LOW - HIGH	32									
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 5/; DESIGN, LOW - HIGH	33									
34	TESTED, LOW - HIGH	34									
35	EST., LOW - HIGH	35									
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36									
37	TESTED, LOW - HIGH	37									
38	ESTIMATED, LOW - HIGH	38									
PLANT OPERATING DATA AND COST OF EQUIPMENT											
39	EST. TOTAL ANNUAL PLANT EMISSIONS 7/	39									
40	PARTICULATE MATTER (1,000 TONS)	40	.08								
41	SULFUR DIOXIDE (1,000 TONS)	41	1.75	4.31	8.37	10.16	8.66				
42	NITROGEN OXIDES (1,000 TONS)	42	2	8	8	6	7				
43	STACKS: - TOTAL NO.	43	150.00	179.00	138.00	225.00	165.00				
44	- HEIGHT (FEET), LOWEST - HIGHEST 8/	44									
45	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	45									
46	TOTAL ASH: COLLECTED (1,000 TONS) 10/	46									
47	SOLO (1,000 TONS) 11/	47									
48	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	48									
49	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	49									
50	ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	50									
51	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	51									
52	ELECTROSTATIC PRECIPITATORS (\$1,000)	52									
53	COMBINATION PRECIPITATORS (\$1,000) 4/	53									
54	DESULFURIZATION SYSTEMS (\$1,000)	54				630.00	202.20				
55	STACKS (\$1,000)	55									
56	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	56									
57	REVENUES FROM SALE OF ASH (\$1,000)	57									
58	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	58									
59	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	59									
60	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	60									
61	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	61									
WATER QUALITY CONTROL DATA											
61	COOLING WATER: SOURCE (FRESH R, L, B, C, H, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z)	61	W	R	NECHES	W	L	SABINE	R	MISSISSIPPI	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62			370.70			3.35		1,048.00	
63	AVERAGE RATE OF DISCHARGE (CFS)	63			367.00			.40		1,038.00	
64	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	64			2.92			2.95		9.01	
65	PEAK LOAD MONTH: 15/	65	JUL	APR	JUL	APR	JUL	APR	JUL	APR	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): 16/	66	86.00	87.00	92.00	72.00			91.00	78.00	
67	AT OUTFALL, SUMMER - WINTER	67			104.00	92.00			101.00	92.00	
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): 17/	68							106.00	87.00	
69	- WINTER	69									
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, Q, R	70									
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71				.84				.40	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72				112.21		.37		3.61	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73						.26	1.80	135.36	
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74									
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	8.00			114.00	85.00		605.00		
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76		YES		YES	YES	YES	YES	YES	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	77	OT	ST	NECHES	ST	OT	YES	ST	YES	
78	RECEIVING WATER BODY	78	R	MISSISSIPPI					R	BAYOU MANCHAC	
79	POND DISCHARGE 19/	79		9.90							
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80									
81	VOLUME (1,000 CU.FT./YR.), BOILER BLOWDOWN - ASH SETTLING	81		17,740.00							
82		82									
COOLING FACILITY DATA											
83	NO. OF UNITS AND CAPACITY (MW) USING 20/	83			225.00			3	952.00	3	994.36
84	ONCE THROUGH COOLING (FRESH)	84									
85	ONCE THROUGH COOLING (SALINE)	85									
86	COOLING PONDS (S)	86	3	175.00	2	227.28	4	982.28			
87	COMBINATIONS 21/	87									
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1950	1953	1937	1958	1959	1970	1962	1966	1980
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 22/	89	13.97	14.98	11.00	12.00	19.00	20.00	13.00	14.00	20.00
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90		262.90		612.40		934.00		1,310.30	893.00
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91				363.60				1,311.00	
CAPITAL COSTS OF COOLING FACILITIES											
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92			362.00				649.00		9,092.00
93	COOLING PONDS (\$1,000)	93									
94	COOLING TOWERS (\$1,000)	94		1,864.00	2,570.00		10,217.00				
ANNUAL COOLING WATER EXPENSES											
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95		1.00	20.00		35.00		48.00		42.00
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96		1.00	14.00		32.00		43.00		41.00
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES											
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97		5.00	64.00		94.00		69.00		50.00
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98		1.00	38.00		66.00		44.00		36.00

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	GULF STATES UTILITIES CO.	HAMILTON MUNC. ELECTRIC PLT.	HAWAIIAN ELECTRIC CO. INC.	HAWAIIAN ELECTRIC CO. INC.	HAWAIIAN ELECTRIC CO. INC.	1				
2	NAME OF PLANT	2	LEWIS CREEK	HAMILTON	HONOLULU	KAHE	WAI'AU	2				
3	UTILITY-PLANT CODE	3	195500-0700	197500-0100	201500-0100	201500-0200	201500-0300	3				
4	STATE	4	TEXAS	OHIO	HAWAII	HAWAII	HAWAII	4				
5	COUNTY	5	MONTGOMERY	BUTLER	HONOLULU	HONOLULU	HONOLULU	5				
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	216 12	079 05	060 22	060 22	060 22	6				
7	PLANT CAPACITY (MM)	7	542.88	83.50	168.00	249.00	395.00	7				
8	ANNUAL GENERATION (MMH) 3/	8	2,063,100	285,900	500,700	1,610,400	1,729,000	8				
9	PLANT HEAT RATE (BTU/MMH) 3/	9	10,125	14,000	12,463	9,859	10,698	9				
AIR QUALITY CONTROL DATA												
FUEL CONSUMPTION DATA (ANNUAL)												
12	COAL: CONSUMPTION (1,000 TONS)	12		104.34				12				
13	AVERAGE HEAT CONTENT (BTU/LB)	13		12,500				13				
14	AVERAGE SULFUR CONTENT (%)	14		.75				14				
15	AVERAGE ASH CONTENT (%)	15		10.00				15				
16	AVERAGE MOISTURE CONTENT (%)	16		3.20				16				
17	COAL: CONSUMPTION (1,000 BARRELS)	17	2.81	5.54	1,000.00	2,453.00	2,930.00	17				
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	137,600	138,200	148,421	154,050	150,147	18				
19	AVERAGE SULFUR CONTENT (%)	19	.18	.20	.42	1.55	.78	19				
20	GAS: CONSUMPTION (1,000 MCF)	20	20,556.00	1,530.40				20				
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,016	1,000				21				
PLANT EQUIPMENT DATA												
22	BOILERS: - TOTAL NO.	22	2	8	6	3	8	22				
23	- NO. OF WET BOTTOM	23		1				23				
24	- NO. WITH FLY ASH REINJECTION	24		4				24				
25	- NO. WITH MECHANICAL PRECIPITATORS	25						25				
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26						26				
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27						27				
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28				
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	10.00	3.00	50.00	13.00	20.00	29				
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30		88.00	97.00			30				
31	TESTED, LOW - HIGH	31						31				
32	ESTIMATED, LOW - HIGH	32		70.00	85.00			32				
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/	33						33				
34	DESIGN, LOW - HIGH	34						34				
35	TESTED, LOW - HIGH	35						35				
36	EST., LOW - HIGH	36						36				
37	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	37						37				
38	TESTED, LOW - HIGH	38						38				
39	ESTIMATED, LOW - HIGH	39						39				
PLANT OPERATING DATA AND COST OF EQUIPMENT												
39	EST. TOTAL ANNUAL PLANT EMISSIONS 7/	39		.79	.17	.41	.49	39				
40	PARTICULATE MATTER (1,000 TONS)	40		.92	1.41	12.76	7.67	40				
41	SULFUR DIOXIDE (1,000 TONS)	41	4.01	.97	2.21	5.41	6.46	41				
42	NITROGEN OXIDES (1,000 TONS)	42	2	5	6	3	8	42				
43	STACKS: - TOTAL NO.	43	189.00	131.00	260.00	141.00	161.00	43				
44	- HEIGHT (FEET), LOWEST - HIGHEST 8/	44						44				
45	COMBUSTION CYCLE ADJUSTIVES (1,000 TONS) 9/	45				.20	.20	45				
46	TOTAL ASH: COLLECTED (1,000 TONS) 10/	46						46				
47	SOLO (1,000 TONS) 11/	47						47				
48	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	48						48				
49	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	49						49				
50	ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	50		140.00				50				
51	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	51						51				
52	ELECTROSTATIC PRECIPITATORS (\$1,000)	52						52				
53	COMBINATION PRECIPITATORS (\$1,000) 4/	53						53				
54	DESULFURIZATION SYSTEMS (\$1,000)	54		126.00	159.80	269.16	316.71	54				
55	STACKS (\$1,000)	55		12.00		3.30	10.00	55				
56	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	56						56				
57	REVENUES FROM SALE OF ASH (\$1,000)	57						57				
58	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	58						58				
59	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	59		12.00		3.30	10.00	59				
60	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	60						60				
61	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	61						61				
WATER QUALITY CONTROL DATA												
61	COOLING WATER: SOURCE (C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, AB, AC, AD, AE, AF, AG, AH, AI, AJ, AK, AL, AM, AN, AO, AP, AQ, AR, AS, AT, AU, AV, AW, AX, AY, AZ, BA, BB, BC, BD, BE, BF, BG, BH, BI, BJ, BK, BL, BM, BN, BO, BP, BQ, BR, BS, BT, BU, BV, BW, BX, BY, BZ, CA, CB, CC, CD, CE, CF, CG, CH, CI, CJ, CK, CL, CM, CN, CO, CP, CQ, CR, CS, CT, CU, CV, CW, CX, CY, CZ, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, EA, EB, EC, ED, EE, EF, EG, EH, EI, EJ, EK, EL, EM, EN, EO, EP, EQ, ER, ES, ET, EU, EV, EW, EX, EY, EZ, FA, FB, FC, FD, FE, FF, FG, FH, FI, FJ, FK, FL, FM, FN, FO, FP, FQ, FR, FS, FT, FU, FV, FW, FX, FY, FZ, GA, GB, GC, GD, GE, GF, GG, GH, GI, GJ, GK, GL, GM, GN, GO, GP, GQ, GR, GS, GT, GU, GV, GW, GX, GY, GZ, HA, HB, HC, HD, HE, HF, HG, HH, HI, HJ, HK, HL, HM, HN, HO, HP, HQ, HR, HS, HT, HU, HV, HW, HX, HY, HZ, IA, IB, IC, ID, IE, IF, IG, IH, II, IJ, IK, IL, IM, IN, IO, IP, IQ, IR, IS, IT, IU, IV, IW, IX, IY, IZ, JA, JB, JC, JD, JE, JF, JG, JH, JI, JJ, JK, JL, JM, JN, JO, JP, JQ, JR, JS, JT, JU, JV, JW, JX, JY, JZ, KA, KB, KC, KD, KE, KF, KG, KH, KI, KJ, KK, KL, KM, KN, KO, KP, KQ, KR, KS, KT, KU, KV, KW, KX, KY, KZ, LA, LB, LC, LD, LE, LF, LG, LH, LI, LJ, LK, LL, LM, LN, LO, LP, LQ, LR, LS, LT, LU, LV, LW, LX, LY, LZ, MA, MB, MC, MD, ME, MF, MG, MH, MI, MJ, MK, ML, MM, MN, MO, MP, MQ, MR, MS, MT, MU, MV, MW, MX, MY, MZ, NA, NB, NC, ND, NE, NF, NG, NH, NI, NJ, NK, NL, NM, NN, NO, NP, NQ, NR, NS, NT, NU, NV, NW, NX, NY, NZ, OA, OB, OC, OD, OE, OF, OG, OH, OI, OJ, OK, OL, OM, ON, OO, OP, OQ, OR, OS, OT, OU, OV, OW, OX, OY, OZ, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ, PK, PL, PM, PN, PO, PP, PQ, PR, PS, PT, PU, PV, PW, PX, PY, PZ, QA, QB, QC, QD, QE, QF, QG, QH, QI, QJ, QK, QL, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, QW, QX, QY, QZ, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, RK, RL, RM, RN, RO, RP, RQ, RR, RS, RT, RU, RV, RW, RX, RY, RZ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ, SK, SL, SM, SN, SO, SP, SQ, SR, SS, ST, SU, SV, SW, SX, SY, SZ, TA, TB, TC, TD, TE, TF, TG, TH, TI, TJ, TK, TL, TM, TN, TO, TP, TQ, TR, TS, TT, TU, TV, TW, TX, TY, TZ, UA, UB, UC, UD, UE, UF, UG, UH, UI, UJ, UK, UL, UM, UN, UO, UP, UQ, UR, US, UT, UY, UZ, VA, VB, VC, VD, VE, VF, VG, VH, VI, VJ, VK, VL, VM, VN, VO, VP, VQ, VR, VS, VT, VU, VV, VW, VX, VY, VZ, WA, WB, WC, WD, WE, WF, WG, WH, WI, WJ, WK, WL, WM, WN, WO, WP, WQ, WR, WS, WT, WU, WV, WW, WX, WY, WZ, XA, XB, XC, XD, XE, XF, XG, XH, XI, XJ, XK, XL, XM, XN, XO, XP, XQ, XR, XS, XT, XU, XV, XW, XX, XY, XZ, YA, YB, YC, YD, YE, YF, YG, YH, YI, YJ, YK, YL, YM, YN, YO, YP, YQ, YR, YS, YT, YU, YV, YW, YX, YY, YZ, ZA, ZB, ZC, ZD, ZE, ZF, ZG, ZH, ZI, ZJ, ZK, ZL, ZM, ZN, ZO, ZP, ZQ, ZR, ZS, ZT, ZU, ZV, ZW, ZX, ZY, ZZ	61	R SAN JACINTO	61	R GREAT MIAMI	61	O PACIFIC OCEAN	61	O PACIFIC OCEAN	61	O PACIFIC OCEAN	61
62	AVERAGE RATE OF WITHDRAWAL (CFPS)	62	35.00	82.00	316.00	496.00	625.00	625.00	625.00	625.00	625.00	
63	AVERAGE RATE OF DISCHARGE (CFPS)	63		81.00	316.00	496.00	625.00	625.00	625.00	625.00	625.00	
64	AVERAGE RATE OF CONSUMPTION (CFPS), CALCULATED - REPORTED 14/	64	35.00	.71	1.00	2.72	4.27	5.38	5.38	5.38	5.38	
65	PEAK LOAD MONTH: JUL	65	JUL	APR	JUL	DEC	JUL	DEC	JUL	DEC	DEC	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66		88.00	46.00	79.00	85.00	80.00	73.00	80.00	80.00	
67	AT OUTFALL, SUMMER - WINTER	67		102.00	56.00	89.00	88.00	95.00	90.00	83.00	90.00	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFPS): SUMMER	68			1,086.00							
69	- WINTER	69			1,948.00							
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, CM	70				.57	.65	.95	.95	.95	.95	
71	CHEMICAL ADJUSTIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71	.30	.04		.10		.35	.35	.35	.35	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	.05	.08								
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73										
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74										
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	3.75	15.00								
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76	YES	YES		YES	YES	YES	YES	YES	YES	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OTM	77	PS	PS		PS	PS	PS	PS	PS	PS	
78	RECEIVING WATER BODY	78	PRIVATE	PRIVATE		PRIVATE	PRIVATE	PRIVATE	PRIVATE	PRIVATE	PRIVATE	
79	POND DISCHARGE 15/	79		10.00	11.00	10.00	11.00	11.00	11.00	11.00	11.00	
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80			1.00							
81	VOLUME (1,000 CU.FT./YR.), BOILER BLOWDOWN - ASH SETTLING	81			.45	.91	.20	.40	.40	.40	.40	
82	- ASH SETTLING	82										
COOLING FACILITY DATA												
83	NO. OF UNITS AND CAPACITY (MM) (SINGLE ONCE THROUGH COOLING (FRESH)	83		83.50								
84	ONCE THROUGH COOLING (SALINE)	84										
85	COOLING PONDS (1)	85	2	542.88		4	168.15	2	249.05	6	372.00	
86	COOLING TOWERS (1)	86										
87	COMBINATIONS 16/	87										
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1970	1929	1965	1930	1957	1963	1970	1938	1968	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 17/	89	15.00	22.00	7.00	13.00	10.00	9.40	13.00	8.00	8.00	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFPS)	90	798.00	193.00	457.00	480.00	849.00	849.00	849.00	849.00	849.00	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFPS)	91		263.00	461.00	486.00	863.00	863.00	863.00	863.00	863.00	
CAPITAL COSTS OF COOLING FACILITIES												
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92		400.00	1,174.54	3,483.00	3,396.13					
93	COOLING PONDS (\$1,000)	93	9,242.00									
94	COOLING TOWERS (\$1,000)	94										
ANNUAL COOLING WATER EXPENSES												
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	1.00	2.00	12.00	9.00	62.00					
96	COST OF CHEMICAL ADJUSTIVES (\$1,000)	96	2.00	7.00								
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES												
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	47.00	5.00	17.00	16.00	31.00					
98	COST OF CHEMICAL ADJUSTIVES (\$1,000)	98	29.00	15.00	9.00	7.00	34.00					

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10. INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	HAWAIIAN ELECTRIC CO. INC.	HOLYOKE GAS & ELECTRIC DEPT.	HOLYOKE WATER POWER CO.	HOLYOKE WATER POWER CO.	INDIANA STATEWIDE REC.	1
2	NAME OF PLANT	2	KAHULUI	HOLYOKE	MOUNT TOM	RIVERSIDE	RATTS	2
3	UTILITY-PLANT CODE	3	201500-0400	213500-0200	214500-0500	214500-0400	216800-0100	3
4	STATE	4	HAWAII	MASSACHUSETTS	MASSACHUSETTS	MASSACHUSETTS	INDIANA	4
5	COUNTY	5	MAUI	HAMPOEN	HAMPOEN	HAMPOEN	PIKE	5
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	060 22	042 01	042 01	042 01	Q77 05	6
7	PLANT CAPACITY (MW)	7	34.93	30.00	136.00	44.75	233.20	7
8	ANNUAL GENERATION (MWH) 3/	8	205,200	116,700	881,900	73,200	1,563,900	8
9	PLANT HEAT RATE (BTU/KWH) 3/	9	13,954	16,667	10,032	15,979	10,040	9
10	AIR QUALITY CONTROL DATA							
11	FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)	12		8.00			719.20	12
13	AVERAGE HEAT CONTENT (BTU/LB)	13		12,500			10,844	13
14	AVERAGE SULFUR CONTENT (%)	14		2.50			2.85	14
15	AVERAGE ASH CONTENT (%)	15		10.50			12.96	15
16	AVERAGE MOISTURE CONTENT (%)	16		4.00			11.70	16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	452.40	286.60	1,420.79	331.00	7.10	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	151,286	147,286	148,143	148,372	137,160	18
19	AVERAGE SULFUR CONTENT (%)	19	1.46	1.81	1.81	1.77	.20	19
20	GAS: CONSUMPTION (1,000 MCF)	20		912.30				20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21		1,000				21
22	PLANT EQUIPMENT DATA							
23	BOILERS: - TOTAL NO.	23	4	4	1	7	2	23
24	- NO. OF WET BOTTOM	24						24
25	- NO. WITH FLY ASH REINJECTION	25						25
26	- NO. WITH MECHANICAL PRECIPITATORS	26	4	2		1	2	26
27	- NO. WITH ELECTROSTATIC PRECIPITATORS	27						27
28	- NO. WITH COMBINATION PRECIPITATORS 4/	28						28
29	- NO. WITH DESULFURIZATION SYSTEMS	29			1			29
30	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	30	15.00 20.00	16.00	12.00	15.00 20.00	18.00	30
31	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	31		90.00 92.60		94.00	88.00	31
32	TESTED, LOW - HIGH	32		85.00		94.00	85.00	32
33	ESTIMATED, LOW - HIGH	33		80.00		94.00	85.00	33
34	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/	34			95.00			34
35	DESIGN, LOW - HIGH	35			92.90			35
36	TESTED, LOW - HIGH	36			95.00			36
37	ESTIMATED, LOW - HIGH	37						37
38	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	38						38
39	TESTED, LOW - HIGH	39						39
40	ESTIMATED, LOW - HIGH	40						40
41	PLANT OPERATING DATA AND COST OF EQUIPMENT							
42	EST. TOTAL ANNUAL PLANT EMISSIONS 7/	42						42
43	PARTICULATE MATTER (1,000 TONS)	43	.01	.16	.01	.03	11.88	43
44	SULFUR DIOXIDE (1,000 TONS)	44	2.22	2.13	8.63	1.97	40.18	44
45	NITROGEN OXIDES (1,000 TONS)	45	1.00	.88	3.13	.73	6.49	45
46	STACKS: - TOTAL NO.	46	4	2	1	5	2	46
47	- HEIGHT (FEET), LOWEST - HIGHEST 8/	47	100.00	95.00 225.00	370.00	65.00 97.00	300.00	47
48	COMBUSTION CYCLE ADJUSTIVES (1,000 TONS) 9/	48						48
49	TOTAL ASH: COLLECTED (1,000 TONS) 10/	49		.80	.13	.01	86.13	49
50	SOLD (1,000 TONS) 11/	50			.09	.03		50
51	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	51			1.16			51
52	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	52						52
53	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	53						53
54	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	54	54.25				146.00	54
55	ELECTROSTATIC PRECIPITATORS (\$1,000)	55						55
56	COMBINATION PRECIPITATORS (\$1,000) 4/	56			344.00			56
57	DESULFURIZATION SYSTEMS (\$1,000)	57						57
58	STACKS (\$1,000)	58	117.00		344.00		318.00	58
59	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	59	2.50	2.20	21.74	.30	1.00	59
60	REVENUES FROM SALE OF ASH (\$1,000)	60			.64			60
61	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	61						61
62	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	62						62
63	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	63	2.50	13.80	61.34	4.10	1.00	63
64	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	64			.64			64
65	WATER QUALITY CONTROL DATA							
66	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	66						66
67	AVERAGE RATE OF WITHDRAWAL (CFD)	67	36.00	40.90	205.00	90.00	260.70	67
68	AVERAGE RATE OF DISCHARGE (CFD)	68	36.00	40.50	205.00	90.00	260.60	68
69	AVERAGE RATE OF CONSUMPTION (CFD), CALCULATED - REPORTED 14/	69	.31	.35	1.76	.77	2.24	69
70	PEAK LOAD MONTH: AUG	70	OFC		JUL	JAN	JUL	70
71	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER 15/	71	73.00	73.00	79.00	35.00	88.00	71
72	AT OUTFALL, SUMMER - WINTER	72	90.00	92.00	105.00	52.00	102.00	72
73	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFD): SUMMER	73	43.00	43.00	1,800.00	2,652.00	2,652.00	73
74	- WINTER	74		60,000.00	4,484.00	4,484.00	159.00	74
75	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C 16/	75						75
76	CHEMICAL ADJUSTIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	76		.50	.02	3.00	.20	76
77	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	77		141.67	.01	64.00	46.25	77
78	LIME (TONS), COOLING WATER - BOILER MAKEUP	78	.60					78
79	ALUM (TONS), COOLING WATER - BOILER MAKEUP	79						79
80	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	80		6.88	9.12	5.95		80
81	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	81		.39	.51	2.34	2.60	81
82	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 17/	82	ST	YES	ST	YES	ST	82
83	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	83						83
84	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	84			4.00		9.20	84
85	VOLUME (1,000 CU.FT./YR.), BOILER BLOWDOWN	85			25.00			85
86	COOLING FACILITY DATA							
87	NO. OF UNITS AND CAPACITY (MW) USING 18/	87						87
88	ONCE THROUGH COOLING (FRESH)	88	4	3	1	5	2	88
89	ONCE THROUGH COOLING (SALINE)	89	38.50	25.00	136.00	44.75	233.20	89
90	COOLING POND(S)	90						90
91	COOLING TOWER(S)	91		1				91
92	COMBINATION 19/	92		5.00				92
93	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	93	1948	1966	1934	1955	1960	93
94	DESIGN: TEMPERATURE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 20/	94	15.00	19.00	15.00	20.00	13.00	94
95	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFD)	95		81.00		84.90	204.00	95
96	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFD)	96		81.00		51.10	204.00	96
97	CAPITAL COSTS OF COOLING FACILITIES							
98	ONCE THROUGH COOLING SYSTEMS (\$1,000)	98	331.00	75.00	57.00			98
99	COOLING PONDS (\$1,000)	99						99
100	COOLING TOWERS (\$1,000)	100		30.00				100
101	ANNUAL COOLING WATER EXPENSES							
102	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	102	3.00	25.00	33.24	4.00	14.00	102
103	COST OF CHEMICAL ADJUSTIVES (\$1,000)	103		1.00	.71	.22		103
104	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
105	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	105	2.50	25.00	5.39	18.00	7.50	105
106	COST OF CHEMICAL ADJUSTIVES (\$1,000)	106	2.10	19.00	7.58	12.00	15.00	106

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	HOUSTON LIGHTING & POWER CO.	HOUSTON LIGHTING & POWER CO.	HOUSTON LIGHTING & POWER CO.	HOUSTON LIGHTING & POWER CO.	HOUSTON LIGHTING & POWER CO.	1					
2	NAME OF PLANT	2	DEEPWATER	GABLE STREET	GREEN BAYOU	CLARKE	ROBINSON	2					
3	UTILITY-PLANT CODE	3	218500-0100	218500-0300	218500-0400	218500-0500	218500-0600	3					
4	STATE	4	TEXAS	TEXAS	TEXAS	TEXAS	TEXAS	4					
5	COUNTY	5	HARRIS	HARRIS	HARRIS	HARRIS	GALVESTON	5					
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	216	12	216	12	216	12	6				
7	PLANT CAPACITY (MM)	7	334.85	53.00	375.00	210.00	1,549.50	7					
8	ANNUAL GENERATION (MMH) 3/	8	1,018,000	104,600	766,300	428,400	9,507,300	8					
9	PLANT HEAT RATE (BTU/KWH) 4/	9	12,319	14,435	12,617	13,401	9,664	9					
AIR QUALITY CONTROL DATA													
FUEL CONSUMPTION DATA (ANNUAL)													
12	COAL: CONSUMPTION (1,000 TONS)	12						12					
13	AVERAGE HEAT CONTENT (BTU/LB)	13						13					
14	AVERAGE SULFUR CONTENT (%)	14						14					
15	AVERAGE ASH CONTENT (%)	15						15					
16	AVERAGE MOISTURE CONTENT (%)	16						16					
17	OIL: CONSUMPTION (1,000 BARRELS)	17	147,619		147,619			17					
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	1,99		1,93			18					
19	AVERAGE SULFUR CONTENT (%)	19	16,182.31	1,435.27	9,303.42	5,453.44	89,053.70	19					
20	GAS: CONSUMPTION (1,000 MCF)	20	1,032	1,052	1,039	1,052	1,032	20					
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21						21					
PLANT EQUIPMENT DATA													
22	BOILERS: - TOTAL NO.	22	9	10	4	4	4	22					
23	- NO. OF WET BOTTOM	23						23					
24	- NO. WITH FLY ASH REINJECTION	24						24					
25	- NO. WITH MECHANICAL PRECIPITATORS	25						25					
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26						26					
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27						27					
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28					
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	12.00	15.00	10.00	18.00	7.00	8.00	10.00	12.90	8.00	24.20	29
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30											30
31	TESTED, LOW - HIGH	31											31
32	ESTIMATED, LOW - HIGH	32											32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/	33											33
34	DESIGN, LOW - HIGH	34											34
35	TESTED, LOW - HIGH	35											35
36	ESTIMATED, LOW - HIGH	36											36
37	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	37											37
38	TESTED, LOW - HIGH	38											38
PLANT OPERATING DATA AND COST OF EQUIPMENT													
39	EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	39											39
40	SULFUR DIOXIDE (1,000 TONS)	40											40
41	NITROGEN OXIDES (1,000 TONS)	41	3.16		.28		1.81		1.06		17.00		41
42	STACKS: - TOTAL NO.	42											42
43	- HEIGHT (FEET), LOWEST - HIGHEST 7/	43	166.00	339.00	73.00	102.30	95.00	119.80	98.80	125.00	197.00	284.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 8/	44											44
45	TOTAL ASH: COLLECTED (1,000 TONS) 9/	45											45
46	SOLD (1,000 TONS) 10/	46											46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47											47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 11/	48											48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49											49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50											50
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51											51
52	COMBINATION PRECIPITATORS (\$1,000) 12/	52											52
53	DESULFURIZATION SYSTEMS (\$1,000)	53											53
54	STACKS (\$1,000)	54											54
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55											55
56	REVENUES FROM SALE OF ASH (\$1,000)	56											56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57											57
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58											58
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	59											59
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60											60
WATER QUALITY CONTROL DATA													
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	HOUSTON CHANL	W	W	W	W	8	OICKINSON	61			
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	388.30		3.78		3.40		1,528.93	62			
63	AVERAGE RATE OF DISCHARGE (CFS)	63	388.30		1.27		1.20		1,528.93	63			
64	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	64			2.51		2.20			64			
65	REAK LOAD MONTH: JUL	65		JUL	JUL	JUL	JUL	JUL	JUL	65			
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	89.00						91.00	66			
67	AT OUTFALL, SUMMER - WINTER	67	103.00						102.00	67			
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68		TIDAL	TIDAL	TIDAL	8.42			68			
69	- WINTER	69		TIDAL	TIDAL	TIDAL	10.06			69			
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O 15/	70								70			
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71	1.35	3.45	6.25	2.00	.40			71			
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	13.84			9.63	4.18		2,021.15	72			
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73								73			
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74								74			
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	4.00		1.00	5.00	498.00	YES	YES	75			
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76	YES	YES	YES	YES	YES	YES	YES	76			
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 16/	77	ST	PS	ST	ST	ST	ST	ST	77			
78	IN RECEIVING WATER BODY	78	HOUSTON CHANL		GREENS BAYOU	SIMS BAYOU	GALVESTON			78			
79	BOILER BLOWDOWN - ASH SETTLING	79								79			
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80								80			
81	VOLUME (1,000 CU.FT./YR.), BOILER BLOWDOWN - ASH SETTLING	81								81			
82		82								82			
COOLING FACILITY DATA													
83	NO. OF UNITS AND CAPACITY (MM) USING: ONCE THROUGH COOLING (FRESH)	83		4	26.10					83			
84	ONCE THROUGH COOLING (ISALINE)	84								84			
85	COOLING POND(S)	85								85			
86	COOLING TOWER(S)	86	1	12.00	2	53.00	4	375.00	4	210.00	3	1,549.50	86
87	COMBINATION 17/	87	6	322.85	1	5.00							87
88	COOLING SYSTEM: YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1924	1955	1908	1971	1949	1953	1943	1951	1966	1968	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 18/	89	9.20	19.50	14.00	16.00	15.40	16.25	15.00	16.60	17.38	18.03	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90		771.10	322.20	322.20	622.40			450.00		1,736.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91		787.00	199.00							1,736.00	91
CAPITAL COSTS OF COOLING FACILITIES													
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92											92
93	COOLING PONDS (\$1,000)	93											93
94	COOLING TOWERS (\$1,000)	94											94
ANNUAL COOLING WATER EXPENSES													
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95											95
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96		.72			1.84		2.18		36.05		96
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES													
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97											97
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98		12.10			12.85		10.34		118.03		98

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	HOUSTON LIGHTING & POWER CO.	HOUSTON LIGHTING & POWER CO.	HOUSTON LIGHTING & POWER CO.	HOUSTON LIGHTING & POWER CO.	HOUSTON LIGHTING & POWER CO.	HOUSTON LIGHTING & POWER CO.
2	NAME OF PLANT	2	BERTRON	WHARTON	PARISH	WEBSTER	CEDAR BAYOU	
3	UTILITY-PLANT CODE	3	218500-0700	218500-0800	218500-0900	218500-1000	218500-1100	
4	STATE	4	TEXAS	TEXAS	TEXAS	TEXAS	TEXAS	
5	COUNTY	5	HARRIS	HARRIS	FORT BEND	HARRIS	CHAMBERS	
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	216	12	216	12	216	12
7	PLANT CAPACITY (MW)	7	826.30	322.80	1,255.40	614.00	765.00	
8	ANNUAL GENERATION (MWH) 2/	8	4,400,700	1,487,400	7,288,600	2,736,400	2,609,800	
9	PLANT HEAT RATE (BTU/KWH) 3/	9	10,218	10,365	9,883	10,303	9,773	
10	PLANT HEAT RATE (BTU/KWH) 3/	10						
11	PLANT HEAT RATE (BTU/KWH) 3/	11						
AIR QUALITY CONTROL DATA								
FUEL CONSUMPTION DATA (ANNUAL)								
12	COAL: CONSUMPTION (1,000 TONS)	12						
13	AVERAGE HEAT CONTENT (BTU/LB)	13						
14	AVERAGE SULFUR CONTENT (%)	14						
15	AVERAGE ASH CONTENT (%)	15						
16	AVERAGE MOISTURE CONTENT (%)	16						
17	OIL: CONSUMPTION (1,000 BARRELS)	17		18	18	18	18	18
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	158,875	147,619	147,619	154,075	154,075	154,075
19	AVERAGE SULFUR CONTENT (%)	19	1.74	2.29	1.56	1.87	1.87	1.87
20	GAS: CONSUMPTION (1,000 MCF)	20	43,644.64	14,945.16	69,277.07	27,326.02	24,628.45	24,628.45
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,031	1,031	1,040	1,032	1,035	1,035
PLANT EQUIPMENT DATA								
22	BOILERS: - TOTAL NO.	22	4	2	4	3	4	22
23	- NO. OF WET BOTTOM	23						23
24	- NO. WITH FLY ASH REINJECTION	24						24
25	- NO. WITH MECHANICAL PRECIPITATORS	25						25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26						26
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27						27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	22.70	28.20	18.00	18.50	18.90	7.00
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30						15.70
31	TESTED, LOW - HIGH	31						8.00
32	ESTIMATED, LOW - HIGH	32						15.50
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 5/; DESIGN, LOW - HIGH	33						
34	TESTED, LOW - HIGH	34						
35	EST., LOW - HIGH	35						
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36						
37	TESTED, LOW - HIGH	37						
38	ESTIMATED, LOW - HIGH	38						
PLANT OPERATING DATA AND COST OF EQUIPMENT								
39	EST. TOTAL ANNUAL PLANT EMISSIONS 2/; PARTICULATE MATTER (1,000 TONS)	39						
40	SULFUR DIOXIDE (1,000 TONS)	40						
41	NITROGEN OXIDES (1,000 TONS)	41						
42	STACKS: - TOTAL NO.	42						
43	- HEIGHT (FEET), LOWEST - HIGHEST 2/	43						
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 2/	44	166.50	177.50	140.00	177.50	167.70	182.00
45	TOTAL ASH: COLLECTED (1,000 TONS) 2/	45						
46	SOLD (1,000 TONS) 2/	46						
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS) 2/	47						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 2/	48						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50						
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51						
52	COMBINATION PRECIPITATORS (\$1,000) 4/	52						
53	DESULFURIZATION SYSTEMS (\$1,000)	53						
54	STACKS (\$1,000)	54						
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55						
56	REVENUES FROM SALE OF ASH (\$1,000)	56						
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	59						
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60						
WATER QUALITY CONTROL DATA								
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	O HOUSTON CHANL	W	C ORY	C CLEAR	O CEDAR BAYOU	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	1,131.28		6.98	29.50	551.28	473.65
63	AVERAGE RATE OF DISCHARGE (CFS)	63	1,131.28		2.76	2.90	551.28	473.65
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	64			4.22	16.10		
65	PEAK LOAD MONTH: JUL	65	JUL	JUL	JUL	JUL	JUL	4.07
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	90.00			94.00	93.00	
67	AT OUTFALL, SUMMER - WINTER	67	103.00			106.00	100.00	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	68						
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, DIS/	69						
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70						
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71	.68	2.70				
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	72	159.22		.05	.13	.24	.93
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	73			5.07	112.66	38.01	
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74						
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75	79.00	5.00	152.00	253.00	206.00	
76	SEWAGE DISPOSAL: METHOD PS, ST, SW, OTM/	76	ST	YES	YES	YES	YES	YES
77	RECEIVING WATER BODY	77	ST O HOUSTON CHANL	ST O GREENS BAYOU	ST L SMITHERS	ST L CLEAR	ST O CEDAR BAYOU	
78	POND DISCHARGE 15/	78		80.00				
79	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79		70.00				
80	VOLUME (1,000 CU.FT./YR), BOILER BLOWDOWN	80						
81		81						
82		82						
COOLING FACILITY DATA								
83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	83						
84	ONCE THROUGH COOLING (SALINE)	84						
85	COOLING POND(S)	85						
86	COMBINATIONS 2/	86						
87	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	87	1956	1960	1958	1968	1954	1965
88	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 12/	88	14.21	15.05	17.73	18.10	16.25	1870
89	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	89	1,144.00		383.00	1,660.00	869.00	751.10
90	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	90	1,144.00					751.10
91		91						
CAPITAL COSTS OF COOLING FACILITIES								
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92						
93	COOLING PONDS (\$1,000)	93						
94	COOLING TOWERS (\$1,000)	94						
ANNUAL COOLING WATER EXPENSES								
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95						
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	8.38	4.03	11.52	20.74	18.14	
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES								
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97						
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	26.99	3.18	18.51	16.49	15.46	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	11	ILLINOIS POWER CO.	ILLINOIS POWER CO.	ILLINOIS POWER CO.	ILLINOIS POWER CO.	ILLINOIS POWER CO.	12
2		22						23
3	NAME OF PLANT	33	HAVANA	HENNEPIN	VERMILION	WOOD RIVER	BALOWIN	34
4	UTILITY-PLANT CODE	44	222500-0200	222500-0300	222500-0600	222500-0700	222500-0800	45
5	STATE	55	ILLINOIS	ILLINOIS	ILLINOIS	ILLINOIS	ILLINOIS	56
6	COUNTY	66	MASON	PUTNAM	VERMILION	MADISON	PANOLA	67
7	NEAR QUALITY CONTROL REGION NO. 1 - WATER RESOURCE REGION NO. 2	77	065 07	071 07	066 05	070 07	070 07	78
8	PLANT CAPACITY (MW)	88	260.00	311.00	182.30	650.10	-	89
9	ANNUAL GENERATION (MWH) 3	99	753,000	1,886,500	976,900	4,007,300	3,354,100	100
10	PLANT HEAT RATE (BTU/KWH) 3	101	12,653	10,105	10,776	10,153	9,760	102
AIR QUALITY CONTROL DATA								
FUEL CONSUMPTION DATA (ANNUAL)								
12	COAL: CONSUMPTION (1,000 TONS)	12	471.70	367.10	485.90	1,407.30	1,675.90	12
13	AVERAGE HEAT CONTENT (BTU/LB)	13	10,080	11,017	10,831	10,964	9,756	13
14	AVERAGE SULFUR CONTENT (%)	14	3.29	3.16	2.93	2.82	4.02	14
15	AVERAGE ASH CONTENT (%)	15	12.17	12.56	10.88	10.62	18.58	15
16	AVERAGE MOISTURE CONTENT (%)	16	16.83	11.05	13.91	11.98	11.53	16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	3.30		3.30		3.70	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	140,000		140,000	140,000	140,000	18
19	AVERAGE SULFUR CONTENT (%)	19	.10		.10	.10	.10	19
20	GAS: CONSUMPTION (1,000 MCF)	20		10,567.10	9,470.10			20
21	AVERAGE HEAT CONTENT (BTU/CU. FT.)	21		1,039		1,034		21
PLANT EQUIPMENT DATA								
22	BOILERS: - TOTAL NO.	22	8	2	2	5	1	22
23	- NO. OF WET BOTTOM	23						23
24	- NO. WITH FLY ASH REINJECTION	24						24
25	- NO. WITH MECHANICAL PRECIPITATORS	25	8	2	2	5		25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26				1	1	26
27	- NO. WITH COMBINATION PRECIPITATORS 4	27						27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5	29	25.00	25.00	24.00	20.00	25.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30	15.00	83.80	87.00	15.00	90.00	30
31	TESTED, LOW - HIGH	31						31
32	ESTIMATED, LOW - HIGH	32	15.00	83.80	87.00	15.00	90.00	32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6: DESIGN, LOW - HIGH	33						33
34	TESTED, LOW - HIGH	34						34
35	EST., LOW - HIGH	35						35
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36						36
37	TESTED, LOW - HIGH	37						37
38	ESTIMATED, LOW - HIGH	38						38
PLANT OPERATING DATA AND COST OF EQUIPMENT								
39	EST. TOTAL ANNUAL PLANT EMISSIONS 7: PARTICULATE MATTER (1,000 TONS)	39	41.48	6.02	6.03	13.66	.44	39
40	SULFUR DIOXIDE (1,000 TONS)	40	30.42	22.74	77.78		132.05	40
41	NITROGEN OXIDES (1,000 TONS)	41	4.25	5.36	4.37	14.52	46.10	41
42	STACKS: - TOTAL NO.	42	3	1	1	3	1	42
43	- HEIGHT (FEET), LOWEST - HIGHEST 8	43	225.00	275.00	275.00	250.00	350.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9	44		40.70	46.70	134.70	310.20	44
45	TOTAL ASH: COLLECTED (1,000 TONS) 10	45	13.60					45
46	SOLO (1,000 TONS) 11	46						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS) 12	47						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 13	48						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS) 14	49						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000) 15	50		219.00	121.00			50
51	ELECTROSTATIC PRECIPITATORS (\$1,000) 16	51				2,170.00	2,900.00	51
52	COMBINATION PRECIPITATORS (\$1,000) 17	52						52
53	DESULFURIZATION SYSTEMS (\$1,000) 18	53						53
54	STACKS (\$1,000) 19	54	287.00	307.00	235.00	892.00	930.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000) 20	55	16.30	43.00	41.30	78.70	74.80	55
56	REVENUES FROM SALE OF ASH (\$1,000) 21	56						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000) 22	57						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000) 23	58						58
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 24	59	16.30	43.00	41.30	78.70	74.80	59
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000) 25	60						60
WATER QUALITY CONTROL DATA								
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & EXT. IN CODES) 26	61	ILLINOIS	ILLINOIS	O RESERVOIR	R MISSISSIPPI	R KASKASKIA	61
62	AVERAGE RATE OF WITHDRAWAL (CF5) 27	62	568.00	277.00	3.00	771.30	27.90	62
63	AVERAGE RATE OF DISCHARGE (CF5) 28	63	568.00	277.00		771.30	27.90	63
64	AVE. RATE OF CONSUMPTION (CF5), CALCULATED - REPORTED 29	64	4.88	2.38	3.00	6.63		64
65	PEAK LOAD MONTH: 30	65	JUN	JUL	JUL	JUL	JUL	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	87.00	86.00	85.00	85.00	85.00	66
67	AT OUTFALL, SUMMER - WINTER	67	94.00	99.00	104.00	104.00	104.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CF5): SUMMER	68	22,910.00	17,900.00	263,500.00	2,530.00	3,095.00	68
69	- WINTER	69	12,600.00	12,700.00	67,900.00			69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D 31	70						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71	.50	1.35	1.23	.90	.05	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72		112.60		762.00	43.50	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73			385.00	12.00	80.00	73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74			37.75		44.00	74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	48.00	34.00	20.00	285.00	41.15	75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76	YES	YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 32	77	OT	ST	ST	OT	OT	77
78	POND DISCHARGE: 33	78	ILLINOIS	ILLINOIS	ILLINOIS	MISSISSIPPI	COOLING POND	78
79	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79	10.00	10.00	9.50	9.00	8.00	79
80	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	80	70.00	400.00	20.00	1,000.00	35.00	80
81	BOILER BLOWDOWN - ASH SETTLING	81	539.00	216.00	120.00	2,800.00		81
82	BOILER BLOWDOWN - ASH SETTLING	82	29,000.00	9,350.00	15,500.00	175,000.00	187,000.00	82
COOLING FACILITY DATA								
83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH) 34	83	5	2		5		83
84	ONCE THROUGH COOLING (SALINE) 35	84	260.00	306.25		655.50		84
85	COOLING PONDS (S) 36	85					1	85
86	COOLING TOWERS (S) 37	86			2	182.30		86
87	COMBINATIONS 38	87						87
88	DESIGN: YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1947	1950	1953	1959	1944	88
89	TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 39	89	7.50	15.00	14.00	15.00	23.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CF5) 40	90	715.00	356.10	267.00	912.00	720.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CF5) 41	91	650.00	356.10		912.00		91
CAPITAL COSTS OF COOLING FACILITIES								
92	ONCE THROUGH COOLING SYSTEMS (\$1,000) 42	92	2,695.00	2,054.00		3,900.00		92
93	COOLING PONDS (\$1,000) 43	93					3,000.00	93
94	COOLING TOWERS (\$1,000) 44	94			2,693.00			94
ANNUAL COOLING WATER EXPENSES								
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000) 45	95	21.10	5.20	28.40	40.00	28.30	95
96	COST OF CHEMICAL ADDITIVES (\$1,000) 46	96	5.00	3.40	9.70	28.50	4.10	96
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES								
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000) 47	97	43.60	15.10	28.70	37.20	47.50	97
98	COST OF CHEMICAL ADDITIVES (\$1,000) 48	98	13.90	15.00	44.50	90.50	55.80	98

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	2	IMPERIAL	3	INDIANA & MICHIGAN ELECTRIC CO.	4	INDIANA & MICHIGAN ELECTRIC CO.	5	INDIANA & MICHIGAN ELECTRIC CO.	6	INDIANA-KENTUCKY ELECTRIC CORP.		
2	NAME OF PLANT	3	EL CENTRO	4	BRECO	5	TANNERS CREEK	6	TWIN BRANCH	7	CLIFTY CREEK		
3	UTILITY-PLANT CODE	4	223000-0700	5	225000-0200	6	225000-0700	7	225000-0800	8	225500-0100		
4	STATE	5	CALIFORNIA	6	INDIANA	7	INDIANA	8	INDIANA	9	INDIANA		
5	COUNTY	6	IMPERIAL	7	SULLIVAN	8	DEARBORN	9	ST. JOSEPH	10	JEFFERSON		
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	7	033	18	084	05	079	05	082	04			
7	PLANT CAPACITY (MW)	8	187.60	9	495.60	10	1,100.30	11	394.00	12	1,304.00		
8	ANNUAL GENERATION (MWH) 3/	9	454,600	10	1,984,500	11	4,601,400	12	1,203,400	13	9,375,400		
9	PLANT HEAT RATE (BTU/KWH) 2/	10	10,794	11	9,536	12	9,513	13	11,175	14	9,407		
AIR QUALITY CONTROL DATA													
FUEL CONSUMPTION DATA (ANNUAL)													
12	COAL: CONSUMPTION (1,000 TONS)	13		14	870.20	15	1,972.00	16	626.70	17	4,048.00		
13	AVERAGE HEAT CONTENT (BTU/LB)	14		15	10,848	16	11,042	17	10,901	18	10,868		
14	AVERAGE SULFUR CONTENT (%)	15		16	3.55	17	3.18	18	2.88	19	3.56		
15	AVERAGE ASH CONTENT (%)	16		17	11.35	18	13.02	19	12.25	20	12.56		
16	AVERAGE MOISTURE CONTENT (%)	17		18	13.75	19	10.13	20	11.85	21	11.70		
17	DIL: CONSUMPTION (1,000 BARRELS)	18		19	4.00	20	32.00	21	10.80				
18	AVERAGE HEAT CONTENT (BTU/GAL)	19	62.12	20	151,113	21	137,654		136,417				
19	AVERAGE SULFUR CONTENT (%)				1.99		1.10		1.10				
20	GAS: CONSUMPTION (1,000 MCF)				4,675.30								
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)				1,055								
PLANT EQUIPMENT DATA													
22	BOILERS: - TOTAL NO.	23	4	24	1	25	4	26	12	27	6		
23	- NO. OF WET BOTTOM	24		25		26		27		28			
24	- NO. WITH FLY ASH REINJECTION	25		26		27		28		29			
25	- NO. WITH MECHANICAL PRECIPITATORS	26		27	1	28	3	29	4	30	6		
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	27		28		29		30		31			
27	- NO. WITH COMBINATION PRECIPITATORS 4/	28		29		30		31		32			
28	- NO. WITH DESULFURIZATION SYSTEMS	29		30		31		32		33			
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	30	12.00	31	15.00	32	20.00	33	20.00	34	17.50		
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	31		32		33	85.00	34	87.30	35	85.00		
31	TESTED, LOW - HIGH	32		33		34		35		36			
32	ESTIMATED, LOW - HIGH	33		34		35		36		37			
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/	34		35		36		37	90.00	38	96.10		
34	DESIGN, LOW - HIGH	35		36		37		38		39			
35	TESTED, LOW - HIGH	36		37		38		39		40			
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	37		38		39		40		41			
37	TESTED, LOW - HIGH	38		39		40		41		42			
38	ESTIMATED, LOW - HIGH	39		40		41		42		43			
PLANT OPERATING DATA AND COST OF EQUIPMENT													
39	EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	40	.01	41	9.88	42	23.11	43	30.23	44	12.89		
40	SULFUR DIOXIDE (1,000 TONS)	41	.41	42	60.55	43	122.91	44	35.38	45	282.45		
41	NITROGEN DIOXIDES (1,000 TONS)	42	1.05	43	23.94	44	29.35	45	9.32	46	60.72		
42	STACKS: - TOTAL NO.	43		44		45		46		47			
43	- HEIGHT (FEET), LOWEST - HIGHEST 7/	44	99.00	45	107.00	46	550.00	47	273.00	48	550.00		
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 8/	45		46		47		48		49			
45	TOTAL ASH: COLLECTED (1,000 TONS) 9/	46		47		48	84.30	49	252.00	50	32.80		
46	SOLD (1,000 TONS) 10/	47		48		49		50	11.90	51	10.30		
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	48		49		50		51		52			
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 11/	49		50		51		52		53			
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	50		51		52		53		54			
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	51		52		53		54		55			
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	52		53		54	1,004.00	55		56			
52	COMBINATION PRECIPITATORS (\$1,000) 12/	53		54		55		56		57			
53	DESULFURIZATION SYSTEMS (\$1,000)	54		55		56		57		58			
54	STACKS (\$1,000)	55		56	53.80	57		58	979.00	59	117.10		
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	56		57		58	94.80	59	411.80	60	117.10		
56	REVENUES FROM SALE OF ASH (\$1,000)	57		58		59		60		61			
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	58		59		60		61		62			
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	59		60		61		62		63			
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	60		61	104.80	62	429.80	63	125.10	64	789.00		
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	61		62		63		64		65	5.00		
WATER QUALITY CONTROL DATA													
61	COOLING WATER: SOURCE (CODES R, L, S, C, M, H & D EXPL. IN FOOTNOTES)	62	D STORAGE BASINS	63	R WABASH	64	R OHIO	65	R ST. JOSEPH	66	R OHIO		
62	AVERAGE RATE OF WITHDRAWAL (CFS)	63	2.01	64	436.20	65	1,515.00	66	353.00	67	2,130.00		
63	AVERAGE RATE OF DISCHARGE (CFS)	64	.15	65	436.16	66	1,515.00	67	353.00	68	2,130.00		
64	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	65	1.86	66	3.75	67	13.03	68	3.04	69	18.32		
65	PEAK LOAD MONTH: 15/	66	AUG	67	JAN	68	AUG	69	DEC	70	AUG		
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	67	90.00	68	57.00	69	80.70	70	43.40	71	54.00		
67	AT OUTFALL, SUMMER - WINTER	68	117.00	69	96.00	70	84.00	71	55.10	72	95.00		
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	69		70		71	2,442.00	72	43,500.00	73	3,020.00		
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O 16/	70		71		72	17,985.00	73	118,600.00	74	3,020.00		
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71	9.35	72	.12	73	.04	74	.14	75	.15		
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72		73	.05	74		75	1.03	76	.02		
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	73		74		75	18.25	76		77	26.00		
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74		75		76		77		78			
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	20.50	76	20.00	77	152.00	78	11.00	79	210.00		
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76	YES	77	YES	78	YES	79	YES	80	YES		
76	SEWAGE DISPOSAL: METHOD PS, ST, SW, DT 17/	77	ST	78	ST	79	OT	80	ST	81	OT		
77	RECEIVING WATER BODY	78	R WABASH	79	R OHIO	80	R OHIO	81	R OHIO	82	R OHIO		
78	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	79		80	6.40	81		82	9.60	83	8.10		
79	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80		81		82		83	12.00	84	15.00		
80	VOLUME (1,000 CU.FT./YR), BOILER BLOWDOWN	81		82		83	30,500.00	84	120,000.00	85	185.59		
81	- ASH SETTLING	82		83		84		85		86			
COOLING FACILITY DATA													
83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	84	1	85	495.60	86	4	1,100.30	87	5	394.00		
84	ONCE THROUGH COOLING (SALINE)	85		86		87		88		89	6		
85	COOLING PONDS (S)	86		87		88		89		90	1,303.56		
86	COOLING TOWER(S)	87	4	88	189.10	89		90		91			
87	COMBINATIONS 21/	88		89		90		91		92			
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	89	1949	90	1968	91	1960	92	1951	93	1964		
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	90	15.00	91	21.00	92	12.20	93	6.00	94	13.60		
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	91		92	277.50	93	669.90	94	1,589.70	95	594.80		
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	92		93		94	720.00	95	1,649.00	96	1,054.00		
CAPITAL COSTS OF COOLING FACILITIES													
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	93		94		95		96	1,737.00	97			
93	COOLING PONDS (\$1,000)	94		95		96		97		98	3,504.00		
94	COOLING TOWERS (\$1,000)	95		96	1,642.10	97		98		99			
ANNUAL COOLING WATER EXPENSES													
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	96		97	34.03	98	23.59	99	66.80	100	1.00		
96	COST OF CHEMICAL ADDITIVES (\$1,000)	97		98	19.71	99	.41	100	11.40	101	2.10		
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES													
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	98		99	21.71	100	7.54	101	18.50	102	5.60		
98	COST OF CHEMICAL ADDITIVES (\$1,000)	99		100	6.91	101	10.10	102	12.50	103	1.20		

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

NAME OF UTILITY	1	INOIANAPOLIS	INOIANAPOLIS	INOIANAPOLIS	INOIANAPOLIS	INTERSTATE POWER
NAME OF PLANT	2	POWER & LIGHT CO.	POWER & LIGHT CO.	POWER & LIGHT CO.	POWER & LIGHT CO.	CO.
UTILITY-PLANT CODE	3	STOUT	PRITCHARD	PERRY	PETERSBURG	OUBUQUE
STATE	4	226000-0100	226000-0200	226000-0300	226000-0500	227000-0300
COUNTY	5	INOIANA	INOIANA	INOIANA	INOIANA	IOWA
AIR QUALITY CONTROL REGION NO. 1 - WATER RESOURCE REGION NO. 2	6	MARION	MORGAN	MARION	PIKE	OUBUQUE
PLANT CAPACITY (MW)	7	080	080	080	077	068
ANNUAL GENERATION (MWH)	8	383.84	393.64	47.50	724.44	91.25
PLANT HEAT RATE (BTU/KWH)	9	1,277,600	1,231,200	73,300	4,499,600	396,500
	10	10,635	11,475	16,000	9,797	13,576
	11					

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	12	573.70	639.60	283.00	2,019.10	124.00
AVERAGE HEAT CONTENT (BTU/LB)	13	11,440	11,042	11,094	10,915	11,314
AVERAGE SULFUR CONTENT (%)	14	3.55	2.71	3.18	3.41	2.85
AVERAGE ASH CONTENT (%)	15	9.48	11.22	11.57	12.02	11.12
AVERAGE MOISTURE CONTENT (%)	16	12.44	14.25	13.30	13.38	13.32
OIL: CONSUMPTION (1,000 BARRELS)	17	80.30				1.80
AVERAGE HEAT CONTENT (BTU/GAL)	18	137,000				140,000
AVERAGE SULFUR CONTENT (%)	19	.30				.50
GAS: CONSUMPTION (1,000 MCF)	20			72.60		2,574.00
AVERAGE HEAT CONTENT (BTU/CU.FT.)	21			1,000		1,000

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	22	12	6	6	2	5
- NO. OF WET BOTTOM	23	2	3	2		2
- NO. WITH FLY ASH REINJECTION	24			2		
- NO. WITH MECHANICAL PRECIPITATORS	25	3	5	2		2
- NO. WITH ELECTROSTATIC PRECIPITATORS	26		1	4	1	
- NO. WITH COMBINATION PRECIPITATORS	27	1				
- NO. WITH DESULFURIZATION SYSTEMS	28					
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILERS	29	78.50	15.00	13.00	33.00	25.00
MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30		90.20	75.00	92.50	87.00
TESTED, LOW - HIGH	31		66.00	76.70	75.00	75.50
ESTIMATED, LOW - HIGH	32	66.00	80.00			74.00
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	33		98.90	90.00	97.00	97.00
TESTED, LOW - HIGH	34		99.00	96.40	97.00	97.00
EST., LOW - HIGH	35		99.00	97.00	97.00	97.00
DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36					
TESTED, LOW - HIGH	37					
ESTIMATED, LOW - HIGH	38					

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	39	11.22	8.60	1.30	16.05	4.57
SULFUR DIOXIDE (1,000 TONS)	40	40.00	33.97	17.64	134.95	6.93
NITROGEN OXIDES (1,000 TONS)	41	8.39	6.60	2.53	18.17	1.91
STACKS: - TOTAL NO.	42	12	3	2	1	5
- HEIGHT (FEET), LOWEST - HIGHEST	43	134.00	250.00	272.00	550.00	106.00
COMBUSTION CYCLE ADDITIVES (1,000 TONS)	44					
TOTAL ASH: COLLECTED (1,000 TONS)	45	40.90	57.60	27.50	199.10	8.60
SOLD (1,000 TONS)	46	7.00		12.90		
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47					
EQUIVALENT OF ACID COLLECTED (1,000 TONS)	48					
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49					
INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50	180.00	223.30	48.90	836.00	196.00
ELECTROSTATIC PRECIPITATORS (\$1,000)	51		611.00	662.20	718.10	
COMBINATION PRECIPITATORS (\$1,000)	52	415.50				
DESULFURIZATION SYSTEMS (\$1,000)	53					
STACKS (\$1,000)	54	318.00	249.50	107.96	772.00	47.00
ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	64.70	36.20	148.30	98.70	14.00
REVENUES FROM SALE OF ASH (\$1,000)	56			11.30	.20	
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57					
REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58					
TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000)	59	64.70	36.20	148.30	98.70	14.00
TOTAL BY-PRODUCT SALES REVENUES (\$1,000)	60			11.30	.20	

WATER QUALITY CONTROL DATA

CODING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R WHITE	R WHITE	R WHITE	R WHITE	R MISSISSIPPI
AVERAGE RATE OF WITHDRAWAL (CFS)	62	203.40	228.16	12.60	509.00	70.90
AVERAGE RATE OF DISCHARGE (CFS)	63	203.40	228.16	12.60	509.00	70.90
AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED	64				4.38	.61
PEAK LOAD MONTH: SUMMER - WINTER	65	JUN	JAN	JUN	JAN	JUN
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	90.00	45.00	89.00	45.00	84.00
AT OUTFALL, SUMMER - WINTER	67			98.00	56.00	95.00
AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	68			105.00	65.00	63,000.00
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O, 18	69					42,000.00
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70					
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71	8.75	1.93	5.45	.18	.76
LIME (TONS), COOLING WATER - BOILER MAKEUP	72	.20		209.65	.30	18.79
ALUM (TONS), COOLING WATER - BOILER MAKEUP	73	56.75	33.25	561.37	875.00	
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74					
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75	132.50	5.00	8.00	96.00	.89
SEWAGE DISPOSAL: METHOOL PS, ST, SW, Q, 18	76	YES	YES	YES	YES	YES
RECEIVING WATER BODY	77	ST	ST	PS	ST	PS
POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	78			10.50	9.60	9.40
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79					8.60
VOLUME (1,000 CU.FT./YR), BOILER BLOWDOWN - ASH SETTLING	80					810.00
	81					4,104.00
	82					

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING ONCE THROUGH COOLING (FRESH)	83	1	113.64	2	724.44	4	91.25
ONCE THROUGH COOLING (SALINE)	84						
COOLING PONDS (S)	85						
COOLING TOWERS (S)	86						
COMBINATIONS	87	6	375.78	5	280.00	4	47.50
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1931	1961	1949	1956	1938	
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST	89	19.00	19.50	19.00	19.50		
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	501.00	481.40		133.00	633.70	220.00
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	501.00	481.40		89.00		

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	2,309.70	1,806.10	646.00	3,256.00	266.00
COOLING PONDS (\$1,000)	93					
COOLING TOWERS (\$1,000)	94	889.40	323.20			

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	33.60	78.00	20.30	13.40	12.80
COST OF CHEMICAL ADDITIVES (\$1,000)	96	9.90	21.60	1.20	12.80	.40

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	78.20	60.00	126.10	57.00	14.00
COST OF CHEMICAL ADDITIVES (\$1,000)	98	9.10	6.80	27.20	15.80	8.20

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	INTERSTATE POWER CO.	INTERSTATE POWER CO.	INTERSTATE POWER CO.	IOWA ELECTRIC LIGHT & POWER CO.	IOWA ELECTRIC LIGHT & POWER CO.	
2		2						
3		3						
4	NAME OF PLANT	4	FOX LAKE	LANSING	KAPP	800NE	SIXTH STREET	
5	UTILITY-PLANT CODE	5	227000-0400	227000-0700	227000-0800	228500-0600	228500-0800	
6	STATE	6	MINNESOTA	IOWA	IOWA	IOWA	IOWA	
7	COUNTY	7	MARTIN	ALLAMAKEE	CLINTON	800NE	LINN	
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	8	128 07	088 07	069 07	092 07	088 07	
9	PLANT CAPACITY (MM)	9	104.60	64.00	237.20	34.20	92.20	
10	ANNUAL GENERATION (MWH) 3/	10	477,900	221,700	1,276,300	144,900	226,300	
11	PLANT HEAT RATE (BTU/KWH) 4/	11	11,366	13,186	10,583	13,740	20,033	
AIR QUALITY CONTROL DATA								
FUEL CONSUMPTION DATA (ANNUAL)								
12	COAL: CONSUMPTION (1,000 TONS)	12	17.00	129.00	555.00	10.20	272.00	
13	AVERAGE HEAT CONTENT (BTU/LB)	13	10,912	11,302	11,029	9,254	9,301	
14	AVERAGE SULFUR CONTENT (%)	14	2.10	2.94	2.90	3.81	2.39	
15	AVERAGE ASH CONTENT (%)	15	10.00	10.34	10.80	23.12	9.18	
16	AVERAGE MOISTURE CONTENT (%)	16	10.00	11.30	13.14	12.73	19.68	
17	OIL: CONSUMPTION (1,000 BARRELS)	17	292.00	1.00	1.90		5.70	
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	151,131	140,000	140,000		154,471	
19	AVERAGE SULFUR CONTENT (%)	19	2.50	.50	.50		2.57	
20	GAS: CONSUMPTION (1,000 MCF)	20	3,198.00		1,243.00	1,810.30	950.50	
21	AVERAGE HEAT CONTENT (BTU/CU.F.T.)	21	999		1,000	1,001	1,040	
PLANT EQUIPMENT DATA								
22	BOILERS: - TOTAL NO.	22	3	3	2	2	10	
23	- NO. OF WET BOTTOM	23	2	3			10	
24	- NO. WITH FLY ASH REINJECTION	24						
25	- NO. WITH MECHANICAL PRECIPITATORS	25						
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26			1	2	8	
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27					6	
28	- NO. WITH DESULFURIZATION SYSTEMS	28						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	20.00	28.00	25.00	22.00	24.00	20.00
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30					80.00	47.00
31	TESTED, LOW - HIGH	31						78.00
32	ESTIMATED, LOW - HIGH	32						
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/ DESIGN, LOW - HIGH	33					80.00	47.00
34	TESTED, LOW - HIGH	34						78.00
35	EST., LOW - HIGH	35						98.00
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36						98.00
37	TESTED, LOW - HIGH	37						
38	ESTIMATED, LOW - HIGH	38						
PLANT OPERATING DATA AND COST OF EQUIPMENT								
39	EST. TOTAL ANNUAL PLANT EMISSIONS 2/ PARTICULATE MATTER (1,000 TONS)	39	.05	8.67	2.65	.40	2.14	
40	SULFUR DIOXIDE (1,000 TONS)	40	2.45	7.43	31.55	.76	12.79	
41	NITROGEN OXIDES (1,000 TONS)	41	1.52	1.94	8.57	.44	4.28	
42	STACKS: - TOTAL NO.	42	2	2	2	2	10	
43	- HEIGHT (FEET), LOWEST - HIGHEST 7/	43	142.00	151.00	175.00	183.00	198.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 8/	44						
45	TOTAL ASH: COLLECTED (1,000 TONS) 9/	45	.40	2.10	52.10	1.80	22.90	
46	SOLD (1,000 TONS) 10/	46						
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 11/	48						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50				53.00	230.00	
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51					1,088.00	
52	COMBINATION PRECIPITATORS (\$1,000) 4/	52						
53	DESULFURIZATION SYSTEMS (\$1,000)	53						
54	STACKS (\$1,000)	54						
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	92.28	17.20	239.40	27.00	76.00	
56	REVENUES FROM SALE OF ASH (\$1,000)	56	1.00	2.60	87.00	5.80	86.20	
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 12/	59	1.00	2.60	87.00	5.80	86.20	
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60						
WATER QUALITY CONTROL DATA								
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	L FOX	R MISSISSIPPI	R MISSISSIPPI	M	O LOCAL RUNOFF	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	74.80	55.40	160.50	.75	5.50	
63	AVERAGE RATE OF DISCHARGE (CFS)	63	74.80	55.40	160.50	.12	5.50	
64	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 13/	64	.64	.48	1.38	.63		
65	PEAK LOAD MONTH: SUMMER - WINTER 14/	65	JUN DEC	JUN DEC	JUN DEC			
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	79.00 40.00	84.00 43.00	83.00 40.00			
67	AT OUTFALL, SUMMER - WINTER	67	97.00 60.00	93.00 55.00	88.00 58.00			
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	68	LAKE	49,900.00	71,000.00			
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, M/	69	LAKE	34,000.00	44,000.00			
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70						
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71	.31	.32	1.53	.15	1.25	
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	72	18.25	7.49	32.98	23.00		
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	73	8.85					
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74						
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75	1.63	.53	29.93	2.35	13.00	
76	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 15/	76	ST	ST	PS	PS	PS	
77	RECEIVING WATER BODY	77						
78	POND DISCHARGE 16/	78	9.50	7.60	9.50	8.30	10.70	
79	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79				7.50	28.00	
80	VOLUME (1,000 CU.FT/YR), BOILER BLOWDOWN - ASH SETTLING	80	895.00	800.90	3,100.00	16.00	4,450.00	
81		81	780.00	10,600.00	2,957.00		236.00	
82		82						
COOLING FACILITY DATA								
83	NO. OF UNITS AND CAPACITY (MM) USING 22/ ONCE THROUGH COOLING (FRESH)	83	3	3	2			
84	ONCE THROUGH COOLING (SALINE)	84	104.60	64.00	237.20			
85	COOLING PONDS (S)	85						
86	COOLING TOWERS (S)	86						
87	COMBINATIONS 22/	87				4	34.20	7
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1950	1962	1947	1967	1942	1953
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	89	12.80	17.40	16.30	21.40	15.00	20.00
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	147.00	134.00	263.00	86.90	12.00	18.00
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	147.00	134.00	263.00		31.90	
CAPITAL COSTS OF COOLING FACILITIES								
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	353.00	557.00	822.00		314.00	
93	COOLING PONDS (\$1,000)	93						
94	COOLING TOWERS (\$1,000)	94				376.00		
ANNUAL COOLING WATER EXPENSES								
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	13.00	10.00	28.80	10.00	12.00	
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	.60	.20	5.00	8.00	2.00	
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES								
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	9.50	8.20	26.40	10.00	12.00	
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	9.00	3.00	10.00	5.50	2.60	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

NAME OF UTILITY	IOWA ELECTRIC LIGHT & POWER CO.	IOWA ELECTRIC LIGHT & POWER CO.	IOWA ELECTRIC LIGHT & POWER CO.	IOWA-ILLINOIS GAS & ELECTRIC CO.	IOWA-ILLINOIS GAS & ELECTRIC CO.
NAME OF PLANT	PRAIRIE CREEK #4	PRAIRIE CREEK #1-3	SUTHERLAND	MOLINE	RIVERSIDE
UTILITY-PLANT CODE	228500-2100	228500-2200	228500-2600	229000-0200	229000-0300
STATE	IOWA	IOWA	IOWA	ILLINOIS	IOWA
COUNTY	LINN	LINN	MARSHALL	ROCK ISLAND	SCOTT
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	088 07	088 07	092 07	069 07	069 07
PLANT CAPACITY (MW)	148.70	96.00	156.60	99.14	244.51
ANNUAL GENERATION (MWH) 2/	725,800	492,800	1,026,000	351,900	1,608,600
PLANT HEAT RATE (BTU/KWH) 3/	10,131	10,554	11,648	13,407	11,761

AIR QUALITY CONTROL DATA					
FUEL CONSUMPTION DATA (ANNUAL)					
COAL: CONSUMPTION (1,000 TONS)	304.50	133.80	184.30	16.70	443.40
AVERAGE HEAT CONTENT (BTU/LB)	10,269	10,260	10,514	10,629	10,510
AVERAGE SULFUR CONTENT (%)	2.82	2.91	3.02	1.73	2.02
AVERAGE ASH CONTENT (%)	10.30	10.76	14.04	9.62	9.70
AVERAGE MOISTURE CONTENT (%)	16.92	16.77	12.04	16.22	16.36
OIL: CONSUMPTION (1,000 BARRELS)	2.17	.71		8.00	
AVERAGE HEAT CONTENT (BTU/GAL)	138,500	138,500		137,589	
AVERAGE SULFUR CONTENT (%)	.25	.25		.40	
GAS: CONSUMPTION (1,000 MCF)	1,060.70	2,354.70	8,071.00	4,148.00	10,147.00
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,039	1,040	1,001	1,040	1,040

PLANT EQUIPMENT DATA					
BOILERS: - TOTAL NO.	1	3	3	9	9
- NO. OF WET BOTTOM	1	1	1		4
- NO. WITH FLY ASH REINJECTION		2	1		
- NO. WITH MECHANICAL PRECIPITATORS	1	3	3		3
- NO. WITH ELECTROSTATIC PRECIPITATORS					
- NO. WITH COMBINATION PRECIPITATORS 4/					
- NO. WITH DESULFURIZATION SYSTEMS					
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	20.00	22.00	25.00	5.00	25.00
MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	80.00	85.00	80.00		85.00
TESTED, LOW - HIGH					
ESTIMATED, LOW - HIGH	80.00	80.00	80.00		85.00
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/					
DESIGN, LOW - HIGH					
TESTED, LOW - HIGH					
EST., LOW - HIGH					
DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH					
TESTED, LOW - HIGH					
ESTIMATED, LOW - HIGH					

PLANT OPERATING DATA AND COST OF EQUIPMENT					
EST. TOTAL ANNUAL PLANT EMISSIONS 7/					
PARTICULATE MATTER (1,000 TONS)	4.08	2.66	1.75	1.03	11.72
SULFUR DIOXIDE (1,000 TONS)	16.83	7.63	10.91	.57	17.55
NITROGEN OXIDES (1,000 TONS)	4.78	2.08	5.59	.94	6.20
STACKS: - TOTAL NO.			190.00	120.00	165.00
- HEIGHT (FEET), LOWEST - HIGHEST 8/	200.00	180.00			144.00
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	26.30	12.10	22.50	.60	19.40
TOTAL ASH: COLLECTED (1,000 TONS) 10/					
SOLO (1,000 TONS) 11/					
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)					
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/					
ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)					
INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	56.80	75.00	157.00		168.90
ELECTROSTATIC PRECIPITATORS (\$1,000)					
COMBINATION PRECIPITATORS (\$1,000) 4/					
DESULFURIZATION SYSTEMS (\$1,000)					
STACKS (\$1,000)	120.90	104.00	62.00	35.30	240.30
ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	50.60	21.80	21.90	9.00	42.00
REVENUES FROM SALE OF ASH (\$1,000)					
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)					
REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)					
TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	50.60	21.80	21.90	9.00	42.00
TOTAL BYPRODUCT SALES REVENUES (\$1,000)					

WATER QUALITY CONTROL DATA					
COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	R CEDAR	R CEDAR	W	R MISSISSIPPI	R MISSISSIPPI
AVERAGE RATE OF WITHDRAWAL (CFS)	136.00	100.00	3.60	107.30	360.00
AVERAGE RATE OF DISCHARGE (CFS)	136.00	102.00	1.60	107.30	340.00
AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	1.17	.86	3.00	.92	2.92
PEAK LOAD MONTH: SUMMER - WINTER 15/	JUN FEB	JUN FEB		JUN DEC	JUN DEC
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	87.00 42.00	87.00 42.00		83.00 36.00	86.00 51.00
AT OUTFALL, SUMMER - WINTER	108.00 72.00	101.00 72.00		84.00 37.00	101.00 63.00
AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	3,059.00	3,059.00		28,500.00	28,500.00
- WINTER	1,475.00	1,475.00		19,500.00	19,500.00
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, DM/					
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	.23	.25	.25	.26	.55
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	31.35	20.90	.01	.15	60.50
LIME (TONS), COOLING WATER - BOILER MAKEUP					3.58
ALUM (TONS), COOLING WATER - BOILER MAKEUP					2.90
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	25.80	17.20	35.00	2.00	17.50
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES	YES
SEWAGE DISPOSAL: METHOD PS, ST, SW, OTM/	ST	ST	ST	PS	ST
RECEIVING WATER BODY					
POND DISCHARGE 16/	10.20	10.30	10.50	8.90	8.90
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	15.00	7.50	7.50		
VOLUME 11,000 CUFT/YR, BOILER BLOWDOWN	17.00	28.00	14.00	234.00	415.00
- ASH SETTLING	1,926.54	88.54		14.56	319.00

COOLING FACILITY DATA					
NO. OF UNITS AND CAPACITY (MW) USING 17/	1	3		5	6
ONCE THROUGH COOLING (FRESH)					
ONCE THROUGH COOLING (SALINE)					
COOLING PONDS (S)			3		
COOLING TOWERS (S)			156.60		
COMBINATION 18/					
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1967	1950 1958	1955 1961	1913 1954	1924 1961
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 19/	20.00	15.00 16.20	15.80 16.10	15.00 23.00	11.50 18.50
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	157.00	163.00	220.00	277.80	442.80
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	158.00	163.00		277.80	442.80

CAPITAL COSTS OF COOLING FACILITIES					
ONCE THROUGH COOLING SYSTEMS (\$1,000)	1,133.50	663.50		427.00	767.00
COOLING PONDS (\$1,000)					
COOLING TOWERS (\$1,000)			1,250.00		

ANNUAL COOLING WATER EXPENSES					
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	10.50	4.00	17.00	4.00	10.00
COST OF CHEMICAL ADDITIVES (\$1,000)	5.00	4.00	52.00	1.00	7.60

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES					
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	16.00	10.00	24.70	9.00	40.00
COST OF CHEMICAL ADDITIVES (\$1,000)	5.00	4.50	8.50	1.00	96.00

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	IOWA PUBLIC SERVICE CO.	IOWA PUBLIC SERVICE CO.	IOWA PUBLIC SERVICE CO.	IOWA POWER & LIGHT CO.	IOWA POWER & LIGHT CO.	IOWA POWER & LIGHT CO.
2	NAME OF PLANT	2	816 SIOUX	GEORGE NEAL	MAYNARD	COUNCIL BLUFFS	OES MOINES #2	OES MOINES #2
3	UTILITY-PLANT CODE	3	229500-0200	229500-0800	229500-1300	230000-0100	230000-0200	230000-0200
4	STATE	4	IOWA	IOWA	IOWA	IOWA	IOWA	IOWA
5	COUNTY	5	WOODBURY	WOODBURY	BLACKHAWK	POTTAWATTAMIE	POLK	POLK
6	AIR QUALITY CONTROL REGION NO. 1 - WATER RESOURCE REGION NO. 2	6	086	10	088	07	085	092
7	PLANT CAPACITY (MW)	7	40.00	147.05	100.00	130.60	325.00	325.00
8	ANNUAL GENERATION (MWH) 2	8	51,400	951,300	383,300	782,100	1,632,400	1,632,400
9	PLANT HEAT RATE (BTU/KWH) 2	9	19,286	9,914	12,418	10,901	12,720	12,720
AIR QUALITY CONTROL DATA								
FUEL CONSUMPTION DATA (ANNUAL)								
12	COAL: CONSUMPTION (1,000 TONS)	12	1.89	175.38	82.68	251.80	458.30	458.30
13	AVERAGE HEAT CONTENT (BTU/LB)	13	12,735	10,140	10,815	10,638	9,508	9,508
14	AVERAGE SULFUR CONTENT (%)	14	3.60	.81	2.83	1.49	4.29	4.29
15	AVERAGE ASH CONTENT (%)	15	11.10	11.22	11.09	8.57	14.56	14.56
16	AVERAGE MOISTURE CONTENT (%)	16	4.10	14.74	13.04	13.40	17.16	17.16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	6.76				38.80	38.80
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	140,000				136,000	136,000
19	AVERAGE SULFUR CONTENT (%)	19	.50				.50	.50
20	GAS: CONSUMPTION (1,000 MCF)	20	914.86	5,964.90	3,139.40	3,175.70	11,823.60	11,823.60
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	988	987	999	999	1,000	1,000
PLANT EQUIPMENT DATA								
22	BOILERS: - TOTAL NO.	22	4	1	5	2	6	6
23	- NO. OF WET BOTTOM	23		1				
24	- NO. WITH FLY ASH REINJECTION	24			3			
25	- NO. WITH MECHANICAL PRECIPITATORS	25			5			
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26				2	5	
27	- NO. WITH COMBINATION PRECIPITATORS	27						
28	- NO. WITH DESULFURIZATION SYSTEMS	28						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER	29	25.00	10.40	25.00	22.00	7.00	23.00
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30			82.00	87.50	80.00	80.00
31	TESTED, LOW - HIGH	31						
32	ESTIMATED, LOW - HIGH	32			85.00		65.00	75.00
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	33						
34	TESTED, LOW - HIGH	34						
35	EST., LOW - HIGH	35						
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36						
37	TESTED, LOW - HIGH	37						
38	ESTIMATED, LOW - HIGH	38						
PLANT OPERATING DATA AND COST OF EQUIPMENT								
39	EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	39	.18	1.97	1.42	3.67	15.83	15.83
40	SULFUR DIOXIDE (1,000 TONS)	40	.14	2.78	4.59	7.35	38.60	38.60
41	NITROGEN OXIDES (1,000 TONS)	41	.21	5.99	1.32	2.89	6.52	6.52
42	STACKS: - TOTAL NO.	42	1	1	3	2	5	5
43	- HEIGHT (FEET), LOWEST - HIGHEST	43	300.00	250.00	225.00	250.00	138.00	250.00
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 2	44						
45	TOTAL ASH: COLLECTED (1,000 TONS) 10	45		15.10	8.70	18.50	48.20	48.20
46	SOLO (1,000 TONS) 11	46					12.10	12.10
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12	48						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	49						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50			95.00	187.00	416.00	416.00
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51						
52	COMBINATION PRECIPITATORS (\$1,000) 4	52						
53	DESULFURIZATION SYSTEMS (\$1,000)	53						
54	STACKS (\$1,000)	54	35.30	53.20	121.00	306.00	336.00	336.00
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55		13.50	14.00	45.90	240.00	240.00
56	REVENUES FROM SALE OF ASH (\$1,000)	56						
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13	59		13.50	14.00	45.90	240.00	240.00
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60						
WATER QUALITY CONTROL DATA								
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R 816 SIOUX	R MISSOURI	R CEOAR	R MISSOURI	R OES MOINES	R OES MOINES
62	AVERAGE RATE OF WITHDRAWAL (ICFS)	62	34.50	158.90	147.00	165.00	311.00	311.00
63	AVERAGE RATE OF DISCHARGE (ICFS)	63	34.50	158.90	147.00	150.00	311.00	311.00
64	AVERAGE RATE OF CONSUMPTION (ICFS), CALCULATED - REPORTED 14	64	.30	1.37	1.26	1.42	15.00	15.00
65	PEAK LOAD MONTH: SUMMER - WINTER	65	JUN	JUN	JUN	JUN	JUN	JUN
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	75.00	72.00	74.00	81.00	40.00	41.00
67	AT OUTFALL, SUMMER - WINTER	67	84.00	86.00	86.00	100.00	58.00	109.00
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (ICFS): SUMMER - WINTER	68	3,239.00	38,600.00	19,160.00	59,210.00	6,028.00	6,028.00
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D 15	69	213.00	21,600.00	1,730.00	14,560.00	864.00	864.00
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70						
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71	.09	.05	.75	.25	1.00	1.00
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	72	.14	.71	24.52	.45	42.65	42.65
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	73		57.55		50.00		
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74		3.79				
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75	YES	YES	YES	YES	YES	YES
76	SEWAGE DISPOSAL: METHOD PS, ST, SW, DT 16	76	PS	ST	PS	SW	ST	ST
77	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	77						
78	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	78	11.00	7.50	10.50	6.70	10.50	9.10
79	VOLUME (1,000 CU.FT./YR), BOILER BLOWDOWN	79	25.00	25.00	10.00	10.50	3.00	.30
80		80						
81		81						
82		82						
COOLING FACILITY DATA								
83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	83	4	1	6	2	130.60	130.60
84	ONCE THROUGH COOLING (ISALINE)	84						
85	COOLING PONDS (S)	85						
86	COOLING TOWERS (S)	86						
87	COMBINATIONS 21	87						
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1924	1948	1964	1937	1958	1954
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 22	89	12.00	18.00	10.00	15.70	17.40	12.00
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (ICFS)	90	164.30	158.90	138.90	173.40	656.00	656.00
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (ICFS)	91	133.70	167.10	240.00	180.50	656.00	656.00
CAPITAL COSTS OF COOLING FACILITIES								
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	297.00	725.00	146.00	1,311.00	825.00	825.00
93	COOLING PONDS (\$1,000)	93						
94	COOLING TOWERS (\$1,000)	94					1,209.00	1,209.00
ANNUAL COOLING WATER EXPENSES								
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95		6.10	1.20	27.40	51.00	51.00
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96			1.20		6.00	6.00
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES								
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	.50	10.20	31.00	10.20	28.00	28.00
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	4.50	2.20	14.30	9.50	12.00	12.00

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

NAME OF UTILITY	1	IOWA SO. UTIL. CO.	2	IOWA SO. UTIL. CO.	3	JACKSONVILLE ELECTRIC LIGHT PLT.	4	JACKSONVILLE ELECTRIC LIGHT PLT.	5	JACKSONVILLE ELECTRIC LIGHT PLT.	6
NAME OF PLANT	2	BRIDGEPORT	3	BURLINGTON	4	KENNEY	5	NORTHSIDE	6	SOUTHSIDE	7
UTILITY-PLANT CODE	3	230500-0100	4	230500-0200	5	234500-0100	6	234500-0200	7	234500-0300	8
STATE	4	IOWA	5	IOWA	6	FLORIDA	7	FLORIDA	8	FLORIDA	9
COUNTY	5	MONROE	6	DES MOINES	7	DUVAL	8	DUVAL	9	DUVAL	10
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	092	07	065	07	049	03	049	03	049	03
PLANT CAPACITY (MW)	7	71.00	8	212.00	9	339.95	10	297.50	11	356.60	12
ANNUAL GENERATION (MWH) 3/	8	285,600	9	1,003,100	10	1,146,800	11	1,300,600	12	1,739,600	13
PLANT HEAT RATE (BTU/KWH) 3/	9	14,923	10	10,133	11	11,628	12	9,702	13	10,811	14
AIR QUALITY CONTROL DATA											
FUEL CONSUMPTION DATA (ANNUAL)											
COAL: CONSUMPTION (1,000 TONS)	12	212.90	13	497.30	14		15		16		17
AVERAGE HEAT CONTENT (BTU/LB)	13	10,021	14	10,219	15		16		17		18
AVERAGE SULFUR CONTENT (%)	14	4.14	15	3.00	16		17		18		19
AVERAGE ASH CONTENT (%)	15	12.79	16	9.07	17		18		19		20
AVERAGE MOISTURE CONTENT (%)	16	16.82	17	18.94	18		19		20		21
DIL: CONSUMPTION (1,000 BARRELS)	17		18	137,000	19	2,319.90	20	2,034.00	21	3,099.00	22
AVERAGE HEAT CONTENT (BTU/GAL)	18		19		20	146,915	21	147,235	22	146,901	23
AVERAGE SULFUR CONTENT (%)	19		20	.10	21	.83	22	.82	23	.83	24
GAS: CONSUMPTION (1,000 MCF)	20		21		22		23		24		25
AVERAGE HEAT CONTENT (BTU/CU.FT.)	21		22		23		24		25		26
PLANT EQUIPMENT DATA											
BOILERS: - TOTAL NO.	22	3	23	1	24	6	25	1	26	5	27
- NO. OF HOT BOTTOM	23		24		25		26		27		28
- NO. WITH FLY ASH REINJECTION	24	3	25		26		27		28		29
- NO. WITH MECHANICAL PRECIPITATORS	25	3	26	1	27		28		29		30
- NO. WITH ELECTROSTATIC PRECIPITATORS	26		27		28		29		30		31
- NO. WITH COMBINATION PRECIPITATORS 4/	27		28		29		30		31		32
- NO. WITH DESULFURIZATION SYSTEMS	28		29		30		31		32		33
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	56.00	30	20.00	31	12.00	32	15.00	33	8.00	34
MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, TESTED, ESTIMATED, 6/	30	93.00	31		32		33		34		35
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY: DESIGN, TESTED, EST., 6/	31	80.00	32	98.00	33		34		35		36
DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, TESTED, ESTIMATED, 6/	32		33	98.50	34		35		36		37
	33		34	98.50	35		36		37		38
PLANT OPERATING DATA AND COST OF EQUIPMENT											
EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	39	7.37	40	.58	41	.39	42	.34	43	.52	44
SULFUR DIOXIDE (1,000 TONS)	40	17.28	41	29.24	42	6.46	43	5.60	44	8.63	45
NITROGEN OXIDES (1,000 TONS)	41	1.60	42	4.48	43	5.12	44	4.48	45	6.83	46
STACKS: - TOTAL NO.	42		43	1	44	7	45	1	46	1	47
- HEIGHT (FEET), LOWEST - HIGHEST 7/	43	150.00	44	306.00	45	136.00	46	155.00	47	250.00	48
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 8/	44		45		46		47		48		49
TOTAL ASH: COLLECTED (1,000 TONS) 9/	45	27.20	46	44.70	47	.03	48	.03	49	.07	50
SOLO (1,000 TONS) 10/	46	3.00	47		48		49		50		51
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47		48		49		50		51		52
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 11/	48		49		50		51		52		53
ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	49	45.00	50		51		52		53		54
INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50		51	367.00	52		53		54		55
ELECTROSTATIC PRECIPITATORS (\$1,000)	51		52		53		54		55		56
COMBINATION PRECIPITATORS (\$1,000) 12/	52		53		54		55		56		57
DESULFURIZATION SYSTEMS (\$1,000)	53		54		55		56		57		58
STACKS (\$1,000)	54	108.00	55	212.00	56	110.00	57	175.00	58	164.00	59
ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	27.00	56	40.90	57	6.30	58	7.50	59	3.00	60
REVENUES FROM SALE OF ASH (\$1,000)	56	.20	57		58		59		60		61
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57		58		59		60		61		62
REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58		59		60		61		62		63
TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	59	34.50	60	40.90	61	6.30	62	7.50	63	3.00	64
TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60	.20	61		62		63		64		65
WATER QUALITY CONTROL DATA											
COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R OES MOINES	62	R MISSISSIPPI	63	R ST. JOHN'S	64	R ST. JOHN'S	65	R ST. JOHN'S	66
AVERAGE RATE OF WITHDRAWAL (CFS)	62	1.13	63	163.87	64	345.00	65	300.00	66	450.70	67
AVERAGE RATE OF DISCHARGE (CFS)	63	.05	64	163.85	65	345.00	66	300.00	67	450.70	68
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	64	1.08	65	1.41	66	2.97	67	2.58	68	3.88	69
PEAK LOAD MONTH: 15/	65	SEP	66	MAR	67	JUL	68	AUG	69	MAR	70
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT OVERFLOW, SUMMER - WINTER	66	83.00	67	47.00	68	89.00	69	83.00	70	88.00	71
AT OUTFALL, SUMMER - WINTER	67	104.00	68	69.00	69	102.00	70	102.00	71	102.00	72
AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	68	70,000.00	69	109,000.00	70	109,000.00	71	63,000.00	72	92,000.00	73
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, DIS/	69		70		71		72		73		74
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70	.05	71	.11	72	1.50	73	230.50	74	1.50	75
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71	.10	72		73	61.07	74	10.00	75		76
LIME (TONS), COOLING WATER - BOILER MAKEUP	72	204.25	73	6.25	74		75	3.00	76		77
ALUM (TONS), COOLING WATER - BOILER MAKEUP	73	30.12	74	.93	75		76	.23	77		78
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74	6.00	75	7.25	76	120.00	77	61.00	78	120.00	79
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75	YES	76	YES	77	YES	78	YES	79	YES	80
SEWAGE DISPOSAL: METHUEN, ST, SW, OTW/	76		77		78		79		80		81
POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	77		78		79		80		81		82
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	78	10.40	79	12.00	80		81		82		83
VOLUME (1,000 CU.FT./YR), BOILER BLOWDOWN - ASH SETTLING	79	46,000.00	80	51,000.00	81		82		83		84
COOLING FACILITY DATA											
NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	83	1	84	212.00	85		86		87		88
ONCE THROUGH COOLING (SALINE)	84		85		86	7	87	339.90	88	1	89
COOLING PONDS (S)	85		86		87		88		89		90
COMBINATIONS 16/	86	3	87	71.00	88		89		90		91
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	87	1953	88	1957	89	1967	90	1955	91	1961	92
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 17/	88	17.50	89	22.00	90	15.00	91	18.00	92	10.50	93
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	89	124.00	90	180.00	91	180.00	92	323.00	93	323.00	94
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	90		91		92		93		94		95
CAPITAL COSTS OF COOLING FACILITIES											
ONCE THROUGH COOLING SYSTEMS (\$1,000)	92		93	1,153.00	94	410.00	95	2,230.00	96	797.00	97
COOLING PONDS (\$1,000)	93		94		95		96		97		98
COOLING TOWERS (\$1,000)	94		95	1.32	96		97		98		99
ANNUAL COOLING WATER EXPENSES											
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	62.00	96	25.10	97	46.70	98	47.00	99	62.50	100
COST OF CHEMICAL ADDITIVES (\$1,000)	96	14.40	97	1.40	98	7.60	99	4.50	100	7.80	101
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES											
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	23.00	98	2.80	99	69.70	100	20.00	101	93.20	102
COST OF CHEMICAL ADDITIVES (\$1,000)	98	6.00	99	1.30	100	7.01	101	27.50	102	3.40	103

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	JERSEY CENTRAL POWER & LIGHT CO.	2	JERSEY CENTRAL POWER & LIGHT CO.	3	JERSEY CENTRAL POWER & LIGHT CO.	4	KANSAS CITY POWER & LIGHT CO.	5	KANSAS CITY POWER & LIGHT CO.
2	NAME OF PLANT	3	WERNER	4	SAYREVILLE	5	OYSTER CREEK NUC	6	GRAND AVE	7	HAWTHORNE
3	UTILITY-PLANT CODE	4	237000-0100	5	237000-0200	6	237000-0800	7	241500-0100	8	241500-0200
4	STATE	5	NEW JERSEY	6	NEW JERSEY	7	NEW JERSEY	8	MISSOURI	9	MISSOURI
5	COUNTY	6	MIDDLESEX	7	MIDDLESEX	8	OCEAN	9	JACKSON	10	JACKSON
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	7	043 02	8	043 02	9	150 02	10	094 10	11	094 10
7	PLANT CAPACITY (MW)	8	116.20	9	346.80	10	620.00	11	126.75	12	908.09
8	ANNUAL GENERATION (MWH) 3/	9	548,000	10	2,110,900	11	3,825,400	12	156,200	13	2,916,600
9	PLANT HEAT RATE (BTU/KWH) 3/	10	12,461	11	11,016	12	11,016	13	16,972	14	10,969
AIR QUALITY CONTROL DATA											
FUEL CONSUMPTION DATA (ANNUAL)											
12	COAL: CONSUMPTION (1,000 TONS)	13		14		15		16	71.34	17	1,118.10
13	AVERAGE HEAT CONTENT (BTU/LB)	14		15		16		17	11,694	18	10,409
14	AVERAGE SULFUR CONTENT (%)	15		16		17		18	3.92	19	2.01
15	AVERAGE ASH CONTENT (%)	16		17		18		19	11.22	20	8.27
16	AVERAGE MOISTURE CONTENT (%)	17		18		19		20	9.61	21	16.04
17	OIL: CONSUMPTION (1,000 BARRELS)	18	1,121.00	19	3,144.00	20		21	139,006		
18	AVERAGE HEAT CONTENT (BTU/GAL)	19	145,012	20	145,277	21					
19	AVERAGE SULFUR CONTENT (%)	20	.44	21	.44						
20	GAS: CONSUMPTION (1,000 MCF)	21			4,012.00			2,971.61	20,050.38		
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)				1,020			957	959		
PLANT EQUIPMENT DATA											
22	BOILERS: - TOTAL NO.	23	4	4				4	5		
23	- NO. OF WET BOTTOM	24									
24	- NO. WITH FLY ASH REINJECTION	25									
25	- NO. WITH MECHANICAL PRECIPITATORS	26									
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	27	1	2							
27	- NO. WITH COMBINATION PRECIPITATORS 4/	28									
28	- NO. WITH DESULFURIZATION SYSTEMS	29									
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	30	10.00	22.00	10.00	20.00		10.00	12.50	20.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	31									
31	TESTED, LOW - HIGH	32			88.40	86.20				85.00	
32	ESTIMATED, LOW - HIGH	33			87.00	88.00				85.00	
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/:	34	85.00		90.00	90.00		99.40		99.00	
34	DESIGN, LOW - HIGH	35			90.80	95.30					
35	EST., LOW - HIGH	36						99.00			
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	37									
37	TESTED, LOW - HIGH	38									
38	ESTIMATED, LOW - HIGH										
PLANT OPERATING DATA AND COST OF EQUIPMENT											
39	EST. TOTAL ANNUAL PLANT EMISSIONS 7/:	40									
40	PARTICULATE MATTER (1,000 TONS)	41									
41	SULFUR DIOXIDE (1,000 TONS)	42									
42	NITROGEN OXIDES (1,000 TONS)	43									
43	STACKS: - TOTAL NO.	44									
44	- HEIGHT (FEET), LOWEST - HIGHEST 8/	45									
45	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	46	124.00	210.00	138.00	221.00		114.00	240.00	200.00	600.00
46	TOTAL ASH: COLLECTED (1,000 TONS) 10/	47									
47	SOLO (1,000 TONS) 11/	48						8.00		88.00	
48	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	49									
49	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	50									
50	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	51									
51	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	52									
52	ELECTROSTATIC PRECIPITATORS (\$1,000)	53	212.00		112.00					324.00	
53	COMBINATION PRECIPITATORS (\$1,000) 4/	54			604.00					1,294.00	
54	DESULFURIZATION SYSTEMS (\$1,000)	55						961.20			
55	STACKS (\$1,000)	56									
56	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57	60.50		134.90			128.00		1,014.00	
57	REVENUES FROM SALE OF ASH (\$1,000)	58	30.00		54.00			99.00		476.00	
58	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	59									
59	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	60									
60	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/							101.00		515.00	
61	TOTAL BYPRODUCT SALES REVENUES (\$1,000)										
WATER QUALITY CONTROL DATA											
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, H & O EXPL. IN FOOTNOTES)	62	R	R	B	R	R	R	R	R	R
62	AVERAGE RATE OF WITHDRAWAL (CFS)	63	193.00	430.00	430.00	1,094.00	53.00	785.00	785.00	785.00	785.00
63	AVERAGE RATE OF DISCHARGE (CFS)	64	1.66	3.70	9.41	1.094.00	.46	6.75	6.75	6.75	6.75
64	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	65									
65	PEAK LOAD MONTH:	66	JUL	SEP	JUN	SEP	JUL	DEC	AUG	DEC	DEC
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	67	77.60	76.00	80.40	79.10	85.00	85.00	84.00	81.00	81.00
67	AT OUTFALL, SUMMER - WINTER	68	87.20	84.00	95.90	93.40	96.00	99.00	99.00	94.00	94.00
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	69									
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, CW	70									
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71									
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	1.85		4.45					1.00	
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	73	10.91		91.69		66.50			1.50	
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74	3.00								
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75									
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76	52.00		115.00		286.00				
76	SEWAGE DISPOSAL: METHOP PS, ST, SW, CTW	77	YES	YES	YES	YES	YES	YES	YES	YES	YES
77	RECEIVING WATER BODY	78	ST	ST	OT	O	O	PS	ST	ST	ST
78	POND DISCHARGE 15/:	79									
79	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80									
80	VOLUME (1,000 CU.FT.), BOILER BLOWDOWN	81									
81	- ASH SETTLING	82									
82											
COOLING FACILITY DATA											
83	NO. OF UNITS AND CAPACITY (MW) USING:	84	3	5	1	5	5	5	5	5	5
84	ONCE THROUGH COOLING (FRESH)	85	116.26	346.75	550.00		126.70		908.09		
85	ONCE THROUGH COOLING (SALINE)	86									
86	COOLING POND(S)	87									
87	COOLING TOWER(S)	88									
88	COMBINATIONS 16/	89									
89	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	90	1930	1953	1930	1958	1969	1929	1949	1951	1969
90	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 17/	91	7.00	10.50	13.60	16.20	19.87				
91	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)			343.10		506.78	1,002.00				
92	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)			348.26		510.00	2,765.00		501.00		
CAPITAL COSTS OF COOLING FACILITIES											
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	93	625.00	1,368.00	8,118.00		1,063.00		5,155.00		
93	COOLING PONDS (\$1,000)	94									
94	COOLING TOWERS (\$1,000)										
ANNUAL COOLING WATER EXPENSES											
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	96	30.00	59.00	51.30		11.00		24.00		
96	COST OF CHEMICAL ADDITIVES (\$1,000)		8.00	18.00	31.20						
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES											
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	98	32.00	57.00	5.50		148.00		220.00		
98	COST OF CHEMICAL ADDITIVES (\$1,000)		12.00	25.00	4.10						

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

NAME OF UTILITY	KANSAS CITY POWER & LIGHT CO.	KANSAS CITY POWER & LIGHT CO.	KANSAS CITY BOARD OF PUBLIC UTILS.	KANSAS CITY BOARD OF PUBLIC UTILS.	KANSAS CITY BOARD OF PUBLIC UTILS.
NAME OF PLANT	MONTROSE	NORTHEAST	KAW	QUINDARO #2	QUINDARO #3
UTILITY-PLANT CODE	241500-0300	241500-0400	242000-0100	242000-0200	242000-0300
STATE	MISSOURI	MISSOURI	KANSAS	KANSAS	KANSAS
COUNTY	HENRY	JACKSON	WYANDOTTE	WYANDOTTE	WYANDOTTE
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	139	094	094	094	094
PLANT CAPACITY (MW)	563.10	133.00	161.28	104.50	239.10
ANNUAL GENERATION (MWH) 3/	2,894,900	110,900	814,000	242,100	518,600
PLANT HEAT RATE (BTU/KWH) 4/	10,824	18,238	11,864	16,187	10,328
AIR QUALITY CONTROL DATA					
FUEL CONSUMPTION DATA (ANNUAL)					
COAL: CONSUMPTION (1,000 TONS)	1,610.93		89.85	18.67	80.05
AVERAGE HEAT CONTENT (BTU/LB)	9,707		11,947	12,212	12,253
AVERAGE SULFUR CONTENT (%)	5.52		3.50	3.50	3.50
AVERAGE ASH CONTENT (%)	21.75		13.07	13.59	12.34
AVERAGE MOISTURE CONTENT (%)	10.24		6.35	5.58	6.13
OIL: CONSUMPTION (1,000 BARRELS)	138.033	5.87			
AVERAGE HEAT CONTENT (BTU/GAL)		138,100			
AVERAGE SULFUR CONTENT (%)	.50	.50			
GAS: CONSUMPTION (1,000 CF)		2,082.26	7,421.54	3,767.86	3,583.09
AVERAGE HEAT CONTENT (BTU/CU.FT.)		955	1,011	943	943
PLANT EQUIPMENT DATA					
BOILERS: - TOTAL NO.	3	8	3	6	2
- NO. OF WET BOTTOM			3	6	1
- NO. WITH FLY ASH REINJECTION					
- NO. WITH MECHANICAL PRECIPITATORS			2	2	
- NO. WITH ELECTROSTATIC PRECIPITATORS			1		2
- NO. WITH COMBINATION PRECIPITATORS 4/					
- NO. WITH DESULFURIZATION SYSTEMS					
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILERS 5/	20.00	20.00	16.00	25.00	16.00
MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH			25.00	41.00	20.00
TESTED, LOW - HIGH			85.00	85.00	
ESTIMATED, LOW - HIGH			85.00	85.00	
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	95.00		97.00		97.00
TESTED, LOW - HIGH					99.35
EST., LOW - HIGH					98.82
DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	95.00		99.00		98.00
TESTED, LOW - HIGH					99.35
ESTIMATED, LOW - HIGH					99.35
PLANT OPERATING DATA AND COST OF EQUIPMENT					
EST. TOTAL ANNUAL PLANT EMISSIONS 6/					
PARTICULATE MATTER (1,000 TONS)	14.89		.37	.56	.02
SULFUR DIOXIDE (1,000 TONS)	174.31	.01	6.16	1.28	5.49
NITROGEN OXIDES (1,000 TONS)	14.52	.42	3.57	1.01	2.90
STACKS: - TOTAL NO.	2	5	3	5	2
- HEIGHT (FEET), LOWEST - HIGHEST 7/	450.00	150.00	204.50	155.00	350.00
CONSTRUCTION CYCLE ADDITIVES (1,000 TONS) 8/					
TOTAL ASH: COLLECTED (1,000 TONS) 9/	348.00		11.22	2.03	11.71
SOLD (1,000 TONS) 10/	92.00				
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)					
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 11/					
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)					
INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)			120.00	100.00	595.00
ELECTROSTATIC PRECIPITATORS (\$1,000)	1,285.00		247.00		
COMBINATION PRECIPITATORS (\$1,000) 4/					
DESULFURIZATION SYSTEMS (\$1,000)					
STACKS (\$1,000)	457.00	33.00	196.62	132.00	443.30
ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	436.00		112.20	24.50	117.11
REVENUES FROM SALE OF ASH (\$1,000)	89.00				
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)					
REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)					
TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 12/	449.00		112.20	24.50	117.11
TOTAL BYPRODUCT SALES REVENUES (\$1,000)	89.00				
WATER QUALITY CONTROL DATA					
COOLING WATER: SOURCE (CODES R, L, B, C, U, M & O EXPL. IN FOOTNOTES)	C DEEPWATER	R MISSOURI	R KAW	R MISSOURI	R MISSOURI
AVERAGE RATE OF WITHDRAWAL (CFS)	575.00	52.00	137.00	68.00	91.00
AVERAGE RATE OF DISCHARGE (CFS)	575.00	52.00	137.00	19.00	91.00
AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 13/		.45	1.18	.58	.78
PEAK LOAD MONTH: 14/	SEP	OEC	SEP	OEC	SEP
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	92.00	84.00	85.00	85.00	85.00
AT OUTFALL, SUMMER - WINTER	108.00	86.00	100.00	100.00	100.00
AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER		49,000.00	12,500.00	40,000.00	40,000.00
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C 15/		35,000.00	1,450.00	19,000.00	19,000.00
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	1.80	2.00	21.00	161.50	38.33
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP					
LIME (TONS), COOLING WATER - BOILER MAKEUP	17.50				
ALUM (TONS), COOLING WATER - BOILER MAKEUP	12.58				
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	30.88		52.00		
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES	YES
SEWAGE DISPOSAL: METHOD PS, ST, SW, CT 16/	OT	PS	PS	PS	PS
POND DISCHARGE 17/			10.50	5.00	10.50
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING			400.00	2,000.00	400.00
VOLUME (1,000 CU.FT/YR), BOILER BLOWDOWN - ASH SETTLING			133.00	40.00	65.00
			5,200.00	2,120.00	5,166.00
COOLING FACILITY DATA					
NO. OF UNITS AND CAPACITY (MW) USING 18/	3	6	3	4	2
ONCE THROUGH COOLING (FRESH)		103.00	161.28	101.00	239.10
ONCE THROUGH COOLING (SALINE)					
COOLING POND(S)					
COOLING TOWER(S)					
COMBINATION(S)					
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1958	1964	1919	1940	1955
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 19/	15.80	15.80	13.76	15.85	14.00
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	765.00	443.00	273.00	296.00	340.00
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)					
CAPITAL COSTS OF COOLING FACILITIES					
ONCE THROUGH COOLING SYSTEMS (\$1,000)		955.00	932.00	870.00	1,550.00
COOLING POND(S) (\$1,000)	1,237.00				
COOLING TOWERS (\$1,000)					
ANNUAL COOLING WATER EXPENSES					
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	20.00		66.00	48.00	33.00
COST OF CHEMICAL ADDITIVES (\$1,000)			8.00		
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES					
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	134.00	22.00	15.00	15.00	15.00
COST OF CHEMICAL ADDITIVES (\$1,000)			3.30	93.00	2.36

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	KANSAS GAS & ELECTRIC CO.	2	KANSAS GAS & ELECTRIC CO.	3	KANSAS GAS & ELECTRIC CO.	4	KANSAS GAS & ELECTRIC CO.	5	KENTUCKY POWER CO.	6	
2	NAME OF PLANT	2	EVANS	3	GILL	4	NEOSHO	5	RIPLEY	6	BIG SANDY	7	
3	UTILITY-PLANT CODE	3	242500-0100	4	242500-0200	5	242500-0300	6	242500-0400	7	245000-0100	8	
4	STATE	4	KANSAS	5	KANSAS	6	KANSAS	7	KANSAS	8	KENTUCKY	9	
5	COUNTY	5	SEOGWICK	6	SEOGWICK	7	LABETTE	8	SEOGWICK	9	LAWRENCE	10	
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	099 11	7	099 11	8	099 11	9	099 11	10	103 05	11	
7	PLANT CAPACITY (MW)	7	539.30	8	348.30	9	113.50	10	87.20	11	1,096.80	12	
8	ANNUAL GENERATION (MWH) 3/	8	3,327,300	9	1,490,900	10	360,400	11	291,600	12	6,385,400	13	
9	PLANT HEAT RATE (BTU/KWH) 2/	9	9,911	10	10,808	11	11,635	12	13,806	13	9,050	14	
AIR QUALITY CONTROL DATA													
FUEL CONSUMPTION DATA (ANNUAL)													
12	COAL: CONSUMPTION (1,000 TONS)	12		13		14	12,762	15	2,492.60	16		17	
13	AVERAGE HEAT CONTENT (BTU/LB)	13		14		15	3.00	16	11,461	17		18	
14	AVERAGE SULFUR CONTENT (%)	14		15		16	12.00	17	1.04	18		19	
15	AVERAGE ASH CONTENT (%)	15		16		17	6.50	18	13.74	19		20	
16	AVERAGE MOISTURE CONTENT (%)	16		17		18	6.50	19	7.29	20		21	
17	OIL: CONSUMPTION (1,000 BARRELS)	17	10.34	18	7.80	19	8.85	20	5.20	21	201.80	22	
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	150,876	19	147,354	20	148,777	21	145,727	22	129,000	23	
19	AVERAGE SULFUR CONTENT (%)	19	2.56	20	2.80	21	2.56	22	2.56	23	1.10	24	
20	GAS: CONSUMPTION (1,000 MCF)	20	33,650.80	21	15,634.40	22	4,063.00	23	3,806.50	24		25	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	978	22	1,028	23	1,029	24	1,049	25		26	
PLANT EQUIPMENT DATA													
22	BOILERS: - TOTAL NO.	22	2	23	4	24	7	25	5	26	2	27	
23	- NO. OF WET BOTTOM	23		24		25		26		27		28	
24	- NO. WITH FLY ASH REINJECTION	24		25		26		27		28		29	
25	- NO. WITH MECHANICAL PRECIPITATORS	25		26		27		28		29		30	
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26		27		28		29		30	2	31	
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27		28		29		30		31		32	
28	- NO. WITH DESULFURIZATION SYSTEMS	28		29		30		31		32		33	
29	- EXCESS AIR USED (%) LOWEST BOILER - HIGHEST BOILER 5/	29	8.00	30	8.00	31	15.00	32	10.00	33	35.00	34	10.00
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, TESTED, ESTIMATED, LOW - HIGH	30		31		32		33		34		35	20.00
31	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, TESTED, EST., LOW - HIGH	31		32		33		34		35		36	98.50
32	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, TESTED, ESTIMATED, LOW - HIGH	32		33		34		35		36		37	87.70
33		33		34		35		36		37		38	87.70
34		34		35		36		37		38		39	
35		35		36		37		38		39		40	
36		36		37		38		39		40		41	
37		37		38		39		40		41		42	
38		38		39		40		41		42		43	
PLANT OPERATING DATA AND COST OF EQUIPMENT													
39	EST. TOTAL ANNUAL PLANT EMISSIONS: 7/ PARTICULATE MATTER (1,000 TONS)	39		40		41		42		43		44	
40	SULFUR DIOXIDE (1,000 TONS)	40		41	0.09	42		43	0.05	44		45	30.57
41	NITROGEN OXIDES (1,000 TONS)	41		42	6.58	43	3.07	44	0.75	45		46	50.81
42	STACKS: - TOTAL NO.	42		43	3	44	5	45	3	46		47	22.88
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	43	198.00	44	144.00	45	150.00	46	202.00	47	150.00	48	825.00
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	44		45		46		47		48		49	
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	45		46		47		48		49		50	341.80
46	SOLD (1,000 TONS) 11/	46		47		48		49		50		51	
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47		48		49		50		51		52	
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	48		49		50		51		52		53	
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49		50		51		52		53		54	
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50		51		52		53		54		55	3,094.00
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51		52		53		54		55		56	
52	COMBINATION PRECIPITATORS (\$1,000) 13/	52		53		54		55		56		57	
53	DESULFURIZATION SYSTEMS (\$1,000)	53		54		55		56		57		58	
54	STACKS (\$1,000)	54	80.80	55	123.00	56	107.10	57	98.80	58	2,521.00	59	192.80
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55		56		57		58		59		60	
56	REVENUES FROM SALE OF ASH (\$1,000)	56		57		58		59		60		61	
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57		58		59		60		61		62	
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58		59		60		61		62		63	
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 14/	59		60		61		62		63		64	
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60		61		62		63		64		65	
WATER QUALITY CONTROL DATA													
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	W	62	W	63	R NEOSHO	64	W	65	R BIG SANDY	66	
62	AVERAGE RATE OF WITHDRAWAL (CFD)	62	8.15	63	5.54	64	1.72	65	3.30	66	31.40	67	
63	AVERAGE RATE OF DISCHARGE (CFD)	63	2.04	64	0.83	65	0.28	66	2.20	67	7.70	68	
64	AVF. RATE OF CONSUMPTION (CFD), CALCULATED - REPORTED 15/	64	6.11	65	4.71	66	1.44	67	1.10	68	21.40	69	
65	PEAK LOAD MONTH: SUMMER - WINTER 16/	65	JUL	66	JAN	67	JUL	68	JAN	69	AUG	70	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66		67		68		69		70	68.00	71	
67	AT OUTFALL, SUMMER - WINTER	67		68		69		70		71	66.00	72	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFD): SUMMER - WINTER	68		69		70		71		72	2,462.00	73	
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, C 18/	69		70		71		72		73		74	
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70	24.10	71	16.93	72	2.40	73	5.65	74	16.85	75	1.05
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71	0.70	72	0.25	73	0.35	74	23.93	75	0.40	76	226.77
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	72		73		74	135.58	75		76		77	22.00
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	73		74		75		76		77		78	
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74	15.00	75	12.00	76	8.25	77	1.25	78	5.00	79	24.00
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75	YES	76	YES	77	YES	78	YES	79	YES	80	YES
76	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 19/	76	ST	77	ST	78	ST	79	ST	80	OT	81	
77	POND DISCHARGE: 20/	77		78		79		80		81		82	
78	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	78		79		80		81		82		83	
79	VOLUME (1,000 CU.FT./YR), BOILER BLOWDOWN - ASH SETTLING	79		80		81		82		83		84	
80		80		81		82		83		84		85	
81		81		82		83		84		85		86	
82		82		83		84		85		86		87	
COOLING FACILITY DATA													
83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	83		84		85		86		87		88	
84	ONCE THROUGH COOLING (SALINE)	84		85		86		87		88		89	
85	COOLING PONDS (S)	85	2	86	4	87	2	88	3	89	2	90	
86	COOLING TOWER(S)	86	539.30	87	348.20	88	73.50	89	87.20	90	1,096.80	91	
87	COMBINATIONS 21/	87		88		89		90		91		92	
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1961	89	1967	90	1952	91	1959	92	1923	93	1954
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 22/	89	22.24	90	25.32	91	14.50	92	17.40	93	11.00	94	16.00
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFD)	90	469.20	91	493.30	92		93		94		95	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFD)	91		92		93		94		95		96	
CAPITAL COSTS OF COOLING FACILITIES													
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92		93		94		95		96		97	
93	COOLING PONDS (\$1,000)	93		94		95		96		97		98	
94	COOLING TOWERS (\$1,000)	94	2,154.40	95	2,544.50	96	812.00	97	253.60	98	664.40	99	6,114.00
ANNUAL COOLING WATER EXPENSES													
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	33.70	96	57.60	97	13.20	98	27.70	99	72.00	100	
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	76.30	97	32.00	98	10.90	99	14.70	100	20.00	101	
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES													
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	7.30	98	31.40	99	11.90	100	13.40	101	18.00	102	
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	12.50	99	12.40	100	2.00	101	4.40	102	37.00	103	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	KENTUCKY UTILITIES CO.	KENTUCKY UTILITIES CO.	KENTUCKY UTILITIES CO.	KENTUCKY UTILITIES CO.	LAKE WORTH LIGHT & WATER DEPT.	1
2	NAME OF PLANT	2	8ROWN	GREEN RIVER	PINEVILLE	TYRONE	LAKE WORTH	2
3	UTILITY-PLANT CODE	3	245500-0200	245500-0300	245500-0500	245500-0600	256500-0100	3
4	STATE	4	KENTUCKY	KENTUCKY	KENTUCKY	KENTUCKY	FLORIDA	4
5	COUNTY	5	MERCER	MUHLBERG	BELL	WOODFORD	PALM BEACH	5
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	102 05	072 05	101 05	102 05	050 03	6
7	PLANT CAPACITY (MW)	7	724.00	263.00	37.50	135.00	74.10	7
8	ANNUAL GENERATION (MWH) 3/	8	2,613,600	1,219,200	77,176	277,588	177,800	8
9	PLANT HEAT RATE (BTU/KWH) 3/	9	10,206	12,151	13,680	13,952	13,235	9

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

10	COAL: CONSUMPTION (1,000 TONS)	10	1,123.84	656.91	46.36	152.65	12
11	AVERAGE HEAT CONTENT (BTU/LB)	11	11,879	11,276	11,598	11,468	11
12	AVERAGE SULFUR CONTENT (%)	12	2.28	3.13	1.71	1.03	12
13	AVERAGE ASH CONTENT (%)	13	12.97	11.02	15.77	13.79	13
14	AVERAGE MOISTURE CONTENT (%)	14	5.89	10.38	5.73	7.68	14
15	OIL: CONSUMPTION (1,000 BARRELS)	15	29.40	1.05	34.61	16.70	15
16	AVERAGE HEAT CONTENT (BTU/GAL)	16	132,000	132,000	139,200	149,000	16
17	AVERAGE SULFUR CONTENT (%)	17	1.12	2.00	1.20	2.10	17
18	GAS: CONSUMPTION (1,000 MCF)	18				2,231.60	18
19	AVERAGE HEAT CONTENT (BTU/CU.FT.)	19				1,027	19

PLANT EQUIPMENT DATA

20	BOILERS: - TOTAL NO.	20	3	5	1	5	4	20
21	- NO. OF WET BOTTOM	21						21
22	- NO. WITH FLY ASH REINJECTION	22						22
23	- NO. WITH MECHANICAL PRECIPITATORS	23		5	1	5	3	23
24	- NO. WITH ELECTROSTATIC PRECIPITATORS	24	2					24
25	- NO. WITH COMBINATION PRECIPITATORS 4/	25	1					25
26	- NO. WITH DESULFURIZATION SYSTEMS	26						26
27	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	27	20.00	25.00	25.00	25.00	10.00	27
28	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	28	80.00	84.00	81.70	84.80	90.00	28
29	TESTED, LOW - HIGH	29	80.00	80.00	81.70	81.00		29
30	ESTIMATED, LOW - HIGH	30	98.00					30
31	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/	31						31
32	DESIGN, LOW - HIGH	32						32
33	TESTED, LOW - HIGH	33						33
34	EST., LOW - HIGH	34	98.00					34
35	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	35						35
36	TESTED, LOW - HIGH	36						36
37	ESTIMATED, LOW - HIGH	37						37

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	39		15.45	12.31	1.14	5.59	39			
40	SULFUR DIOXIDE (1,000 TONS)	40		50.22	40.30	1.55	3.10	40			
41	NITROGEN OXIDES (1,000 TONS)	41		10.11	5.91	1.42	1.45	41			
42	STACKS: - TOTAL NO.	42		3	3	1	3	42			
43	- HEIGHT (FEET), LOWEST - HIGHEST 7/	43	345.00	564.00	125.00	247.00	135.00	180.00	60.00	100.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 8/	44									44
45	TOTAL ASH: COLLECTED (1,000 TONS) 9/	45		115.20	60.41	6.17	14.70				45
46	SOLD (1,000 TONS) 10/	46									46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47									47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 11/	48									48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49									49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50		140.70	229.25	19.96	53.00	45.00	50		
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51		727.00					51		
52	COMBINATION PRECIPITATORS (\$1,000) 12/	52							52		
53	DESULFURIZATION SYSTEMS (\$1,000)	53							53		
54	STACKS (\$1,000)	54		1,065.50	141.11	11.85	103.80	54.00	54		
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55		3.60	91.82	18.36	3.44		55		
56	REVENUES FROM SALE OF ASH (\$1,000)	56							56		
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57							57		
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58							58		
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	59		3.60	91.83	18.37	3.44		59		
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60							60		

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	L HERRINGTON	R GREEN	R CUMBERLAND	R KENTUCKY	M	61
62	AVERAGE RATE OF WITHDRAWAL (CFD)	62		276.20	1.00	77.00		62
63	AVERAGE RATE OF DISCHARGE (CFD)	63		276.10	1.00	77.00		63
64	AVE. RATE OF CONSUMPTION (CFD), CALCULATED - REPORTED 14/	64		2.38		.66		64
65	PEAK LOAD MONTH: SUMMER - WINTER 15/	65	AUG FEB	AUG FEB	AUG FEB	AUG FEB	AUG JAN	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT OVERFLOW, SUMMER - WINTER	66		83.00	50.00	77.00	43.00	66
67	AT OUTFALL, SUMMER - WINTER	67		104.00	90.00	88.00	54.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFD): SUMMER - WINTER	68		8,743.00				68
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, L 16/	69		15,776.00				69
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70		.30	1.50	.04	.75	70
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71		34.45	12.00	1.50	62.46	71
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	72		5.00	21.25	1.06	18.00	72
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	73		11.00	53.68	2.83	30.00	73
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74		1.50	7.00			74
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75		YES	YES	YES	YES	75
76	SEWAGE DISPOSAL: METHOD PS, ST, SW, CT 17/	76	ST	OT	OT	SW	PS	76
77	RECEIVING WATER BODY	77	R GREEN	R CUMBERLAND	R KENTUCKY			77
78	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	78	10.80	9.80	7.40	7.80	9.50	78
79	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79	1.20	25.00		5.00	300.00	79
80	VOLUME (1,000 CU.FT/YR), BOILER BLOWDOWN - ASH SETTLING	80		245.00	2.00	50.00	470.00	80
81		81		8,909.00	3,161.60	2,300.00		81

COOLING FACILITY DATA

82	NO. OF UNITS AND CAPACITY (MW) USING:	ONCE THROUGH COOLING (FRESH)	83	4	263.00	3	135.00	84					
83		ONCE THROUGH COOLING (SALINE)	84					85					
84		COOLING PONDS(S)	85					86					
85		COOLING TOWERS(S)	86	3	696.00	1	37.50	87					
86		COMBINATIONS 18/	87				4	74.10					
87	COOLING SYSTEM, YEAR OF INSTALLATION:	OLDEST SYSTEM - NEWEST SYSTEM	88	1957	1971	1949	1959	1951	1947	1953	1961	1971	88
88	DESIGN: TRIP, MISC ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 19/		89	15.00	200.00		20.00	16.00	12.00	18.00	14.50	17.20	89
89	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFD)		90		714.10		406.90	7.91		256.10		146.20	90
90	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFD)		91				406.90			256.10			91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92		2,580.69			92
93	COOLING PONDS (\$1,000)	93					93
94	COOLING TOWERS (\$1,000)	94	2,088.00		116.72	895.00	94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	150.00	26.00	2.79	3.00	95
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96		8.70	1.08	14.40	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	15.00	62.00	5.84	18.20	97
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	4.80	17.30	3.80	15.30	98

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	LAKELAND LIGHT & WATER DEPT.	LAKELAND LIGHT & WATER DEPT.	LANSING BOARD OF W.E.L. COMM.	LANSING BOARD OF W.E.L. COMM.	LONG ISLAND LIGHTING CO.	1
2	NAME OF PLANT	2	LAKE PARKER	PLANT #3	ECKERT	OTTAWA	BARRETT	2
3	UTILITY-PLANT CODE	3	257500-0200	257500-0300	260500-0100	260500-0400	273000-0100	3
4	STATE	4	FLORIDA	FLORIDA	MICHIGAN	MICHIGAN	NEW YORK	4
5	COUNTY	5	POLK	POLK	INGHAM	INGHAM	NASSAU	5
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	052 03	052 03	125 04	125 04	043 02	6
7	PLANT CAPACITY (MM) 3/	7	120.00	100.00	386.00	81.50	375.00	7
8	ANNUAL GENERATION (MMH) 3/	8	516,200	215,600	1,309,700	165,000	2,210,700	8
9	PLANT HEAT RATE (BTU/KWH) 3/	9	12,332	11,094	11,150	11,710	10,154	9
10	AIR QUALITY CONTROL DATA							
11	FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)	12			671.25	102.34		12
13	AVERAGE HEAT CONTENT (BTU/LB)	13			12,382	12,159		13
14	AVERAGE SULFUR CONTENT (%)	14			2.27	2.47		14
15	AVERAGE ASH CONTENT (%)	15			11.47	12.65		15
16	AVERAGE MOISTURE CONTENT (%)	16			5.60	5.95		16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	729.40	364.00			3,100.00	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	150,000	150,000			145,829	18
19	AVERAGE SULFUR CONTENT (%)	19	1.73	1.71			.91	19
20	GAS: CONSUMPTION (1,000 MCF)	20	1,864.30	393.60			3,359.00	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,028	1,029			1,030	21
22	PLANT EQUIPMENT DATA							
23	BOILERS: - TOTAL NO.	23	4	1	6	5	2	23
24	- NO. OF WET BOTTOM	24			6		1	24
25	- NO. WITH FLY ASH REINJECTION	25					1	25
26	- NO. WITH MECHANICAL PRECIPITATORS	26			6	5		26
27	- NO. WITH ELECTROSTATIC PRECIPITATORS	27					1	27
28	- NO. WITH COMBINATION PRECIPITATORS 4/	28						28
29	- NO. WITH DESULFURIZATION SYSTEMS	29						29
30	- EXCESS AIR USED (%)	30	10.00	15.00	8.00	18.00	18.00	25.00
31	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	31						
32	TESTED, LOW - HIGH	32						
33	ESTIMATED, LOW - HIGH	33						
34	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	34			96.90	97.50	97.50	5.00
35	TESTED, LOW - HIGH	35				98.00		13.00
36	EST., LOW - HIGH	36				97.50		25.00
37	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	37						
38	TESTED, LOW - HIGH	38						
39	EST., LOW - HIGH	39						
40	PLANT OPERATING DATA AND COST OF EQUIPMENT							
41	EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	41	.13	.04	1.25	.21	.45	36
42	SULFUR DIOXIDE (1,000 TONS)	42	4.37	2.09	29.87	4.95	9.46	40
43	NITROGEN OXIDES (1,000 TONS)	43	2.03	.88	10.07	1.54	7.49	41
44	STACKS: - TOTAL NO.	44	4	1	6	1	2	42
45	- HEIGHT (FEET), LOWEST - HIGHEST 5/	45	165.00	150.00	334.00	359.00	293.00	250.00
46	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 6/	46						
47	TOTAL ASH: COLLECTED (1,000 TONS) 7/	47			79.80	13.30	.06	.20
48	SOLD (1,000 TONS) 8/	48			6.80	3.70	.06	.06
49	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	49						
50	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 9/	50						
51	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	51						
52	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	52			767.40	361.80	808.00	808.00
53	ELECTROSTATIC PRECIPITATORS (\$1,000)	53						
54	COMBINATION PRECIPITATORS (\$1,000) 10/	54						
55	DESULFURIZATION SYSTEMS (\$1,000)	55	113.00	14.00	592.50	174.30	465.00	465.00
56	STACKS (\$1,000)	56			146.60	18.00		
57	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57			12.30	6.70	17.50	17.50
58	REVENUES FROM SALE OF ASH (\$1,000)	58						
59	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	59						
60	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	60			204.00	21.00		
61	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 11/	61			12.30	6.70	17.50	17.50
62	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	62						
63	WATER QUALITY CONTROL DATA							
64	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	64	L PARKER	L PARKER	R GRAND	R GRAND	O HOG IS CHANNEL	64
65	AVERAGE RATE OF WITHDRAWAL (CF5)	65	390.00	176.00	219.70	44.70	412.00	65
66	AVERAGE RATE OF DISCHARGE (CF5)	66	390.00	176.00	219.40	44.70	412.00	66
67	AVE. RATE OF CONSUMPTION (CF5), CALCULATED - REPORTED 12/	67	3.35	1.51	.30	.38	3.54	67
68	PEAK LOAD MONTH: 13/	68	AUG	JAN	AUG	OEC	AUG	OEC
69	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	69	92.00	74.00	85.00	42.00	82.00	55.00
70	AT OUTFALL, SUMMER - WINTER	70	100.00	80.00	104.00	74.00	100.00	67.00
71	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CF5): SUMMER - WINTER	71	420.00	176.00	538.00	942.00		
72	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, DIS 14/	72						
73	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	73	.40	.28	.07		1.55	73
74	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	74	.30		.14	.09	.40	74
75	LIME (TONS), COOLING WATER - BOILER MAKEUP	75						
76	ALUM (TONS), COOLING WATER - BOILER MAKEUP	76						
77	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	77			34.50	24.00	26.80	77
78	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	78	YES	YES	YES	YES	YES	78
79	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 15/	79	ST	ST	PS	PS	PS	79
80	POND DISCHARGE 16/	80						
81	BOILER BLOWDOWN - ASH SETTLING	81	10.70	10.70	11.00	11.00		
82	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	82	5.00	10.00	30.00	30.00		
83	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	83	83.42	10.00	1,796.40	555.74		
84	COOLING FACILITY DATA							
85	NO. OF UNITS AND CAPACITY (MM) USING: ONCE THROUGH COOLING (FRESH)	85	4	1		5	81.50	85
86	ONCE THROUGH COOLING (SALINE)	86						
87	COOLING POND(S)	87					2	375.00
88	COOLING TOWER(S)	88						
89	COMBINATION(S) 17/	89			6	381.00		
90	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	90	1950	1966	1970	1954	1970	1938
91	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 18/	91	6.00	8.20	11.40	16.30	23.00	14.30
92	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CF5)	92	406.00	176.00	450.60	150.30	434.00	434.00
93	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CF5)	93	406.00	176.00	450.60	150.30	434.00	434.00
94	CAPITAL COSTS OF COOLING FACILITIES							
95	ONCE THROUGH COOLING SYSTEMS (\$1,000)	95	149.00	440.00	1,050.00	82.00	2,349.00	2,349.00
96	COOLING PONDS (\$1,000)	96			1,100.00			
97	COOLING TOWERS (\$1,000)	97			1,015.00			
98	ANNUAL COOLING WATER EXPENSES							
99	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	99	47.00	3.50	54.70	22.00	12.00	12.00
100	COST OF CHEMICAL ADDITIVES (\$1,000)	100			4.00	2.80	3.00	3.00
101	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
102	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	102	.00	1.00	12.70	10.00	12.00	12.00
103	COST OF CHEMICAL ADDITIVES (\$1,000)	103	2.20	.36	.80	.20	.50	.50

94 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

NAME OF UTILITY	1	2	3	4	5	6	7	8	9	10	11
NAME OF PLANT	1	2	3	4	5	6	7	8	9	10	11
UTILITY-PLANT CODE	1	2	3	4	5	6	7	8	9	10	11
STATE	1	2	3	4	5	6	7	8	9	10	11
COUNTY	1	2	3	4	5	6	7	8	9	10	11
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	1	2	3	4	5	6	7	8	9	10	11
PLANT CAPACITY (MM)	1	2	3	4	5	6	7	8	9	10	11
ANNUAL GENERATION (MMH) 3/	1	2	3	4	5	6	7	8	9	10	11
PLANT HEAT RATE (BTU/KWH) 3/	1	2	3	4	5	6	7	8	9	10	11
AIR QUALITY CONTROL DATA											
FUEL CONSUMPTION DATA (ANNUAL)											
COAL: CONSUMPTION (1,000 TONS)	12	13	14	15	16	17	18	19	20	21	22
AVERAGE HEAT CONTENT (BTU/LB)	12	13	14	15	16	17	18	19	20	21	22
AVERAGE SULFUR CONTENT (%)	12	13	14	15	16	17	18	19	20	21	22
AVERAGE ASH CONTENT (%)	12	13	14	15	16	17	18	19	20	21	22
AVERAGE MOISTURE CONTENT (%)	12	13	14	15	16	17	18	19	20	21	22
COAL: CONSUMPTION (1,000 BARRELS)	12	13	14	15	16	17	18	19	20	21	22
AVERAGE HEAT CONTENT (BTU/GAL)	12	13	14	15	16	17	18	19	20	21	22
AVERAGE SULFUR CONTENT (%)	12	13	14	15	16	17	18	19	20	21	22
GAS: CONSUMPTION (1,000 MCF)	12	13	14	15	16	17	18	19	20	21	22
AVERAGE HEAT CONTENT (BTU/CU.FT.)	12	13	14	15	16	17	18	19	20	21	22
PLANT EQUIPMENT DATA											
BOILERS: - TOTAL NO.	23	24	25	26	27	28	29	30	31	32	33
- NO. OF WET BOTTOM	23	24	25	26	27	28	29	30	31	32	33
- NO. WITH FLY ASH REINJECTION	23	24	25	26	27	28	29	30	31	32	33
- NO. WITH MECHANICAL PRECIPITATORS	23	24	25	26	27	28	29	30	31	32	33
- NO. WITH ELECTROSTATIC PRECIPITATORS	23	24	25	26	27	28	29	30	31	32	33
- NO. WITH COMBINATION PRECIPITATORS 4/	23	24	25	26	27	28	29	30	31	32	33
- NO. WITH DESULFURIZATION SYSTEMS	23	24	25	26	27	28	29	30	31	32	33
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	23	24	25	26	27	28	29	30	31	32	33
MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	23	24	25	26	27	28	29	30	31	32	33
TESTED, LOW - HIGH	23	24	25	26	27	28	29	30	31	32	33
ESTIMATED, LOW - HIGH	23	24	25	26	27	28	29	30	31	32	33
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	23	24	25	26	27	28	29	30	31	32	33
TESTED, LOW - HIGH	23	24	25	26	27	28	29	30	31	32	33
EST., LOW - HIGH	23	24	25	26	27	28	29	30	31	32	33
DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	23	24	25	26	27	28	29	30	31	32	33
TESTED, LOW - HIGH	23	24	25	26	27	28	29	30	31	32	33
ESTIMATED, LOW - HIGH	23	24	25	26	27	28	29	30	31	32	33
PLANT OPERATING DATA AND COST OF EQUIPMENT											
EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	34	35	36	37	38	39	40	41	42	43	44
SULFUR DIOXIDE (1,000 TONS)	34	35	36	37	38	39	40	41	42	43	44
NITROGEN OXIDES (1,000 TONS)	34	35	36	37	38	39	40	41	42	43	44
STACKS: - TOTAL NO.	45	46	47	48	49	50	51	52	53	54	55
- HEIGHT (FEET), LOWEST - HIGHEST 6/	45	46	47	48	49	50	51	52	53	54	55
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 7/	45	46	47	48	49	50	51	52	53	54	55
TOTAL ASH: COLLECTED (1,000 TONS) 8/	45	46	47	48	49	50	51	52	53	54	55
SOLD (1,000 TONS) 9/	45	46	47	48	49	50	51	52	53	54	55
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	45	46	47	48	49	50	51	52	53	54	55
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 10/	45	46	47	48	49	50	51	52	53	54	55
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	45	46	47	48	49	50	51	52	53	54	55
INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	45	46	47	48	49	50	51	52	53	54	55
ELECTROSTATIC PRECIPITATORS (\$1,000)	45	46	47	48	49	50	51	52	53	54	55
COMBINATION PRECIPITATORS (\$1,000) 4/	45	46	47	48	49	50	51	52	53	54	55
DESULFURIZATION SYSTEMS (\$1,000)	45	46	47	48	49	50	51	52	53	54	55
STACKS (\$1,000)	45	46	47	48	49	50	51	52	53	54	55
ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	45	46	47	48	49	50	51	52	53	54	55
REVENUES FROM SALE OF ASH (\$1,000)	45	46	47	48	49	50	51	52	53	54	55
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	45	46	47	48	49	50	51	52	53	54	55
REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	45	46	47	48	49	50	51	52	53	54	55
TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 11/	45	46	47	48	49	50	51	52	53	54	55
TOTAL BYPRODUCT SALES REVENUES (\$1,000)	45	46	47	48	49	50	51	52	53	54	55
WATER QUALITY CONTROL DATA											
COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	56	57	58	59	60	61	62	63	64	65	66
AVERAGE RATE OF WITHDRAWAL (CFD)	56	57	58	59	60	61	62	63	64	65	66
AVERAGE RATE OF DISCHARGE (CFD)	56	57	58	59	60	61	62	63	64	65	66
AVERAGE RATE OF CONSUMPTION (CFD), CALCULATED - REPORTED 12/	56	57	58	59	60	61	62	63	64	65	66
PEAK LOAD MONTH 13/	56	57	58	59	60	61	62	63	64	65	66
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER 14/	56	57	58	59	60	61	62	63	64	65	66
AT OUTFALL, SUMMER - WINTER	56	57	58	59	60	61	62	63	64	65	66
AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFD): SUMMER - WINTER	56	57	58	59	60	61	62	63	64	65	66
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OIS	56	57	58	59	60	61	62	63	64	65	66
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	56	57	58	59	60	61	62	63	64	65	66
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	56	57	58	59	60	61	62	63	64	65	66
LIME (TONS), COOLING WATER - BOILER MAKEUP	56	57	58	59	60	61	62	63	64	65	66
ALUM (TONS), COOLING WATER - BOILER MAKEUP	56	57	58	59	60	61	62	63	64	65	66
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	56	57	58	59	60	61	62	63	64	65	66
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	56	57	58	59	60	61	62	63	64	65	66
SEWAGE DISPOSAL: METHOD PS, ST, SW, OTM/	56	57	58	59	60	61	62	63	64	65	66
RECEIVING WATER BODY	56	57	58	59	60	61	62	63	64	65	66
POND DISCHARGE 15/	56	57	58	59	60	61	62	63	64	65	66
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	56	57	58	59	60	61	62	63	64	65	66
VOLUME (1,000 CU.FT./YR.), BOILER BLOWDOWN - ASH SETTLING	56	57	58	59	60	61	62	63	64	65	66
COOLING FACILITY DATA											
NO. OF UNITS AND CAPACITY (MM) USING: ONCE THROUGH COOLING (FRESH)	67	68	69	70	71	72	73	74	75	76	77
ONCE THROUGH COOLING (SALINE)	67	68	69	70	71	72	73	74	75	76	77
COOLING PONDS 16/	67	68	69	70	71	72	73	74	75	76	77
COOLING TOWERS 17/	67	68	69	70	71	72	73	74	75	76	77
COMBINATIONS 18/	67	68	69	70	71	72	73	74	75	76	77
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	67	68	69	70	71	72	73	74	75	76	77
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 19/	67	68	69	70	71	72	73	74	75	76	77
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFD)	67	68	69	70	71	72	73	74	75	76	77
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFD)	67	68	69	70	71	72	73	74	75	76	77
CAPITAL COSTS OF COOLING FACILITIES											
ONCE THROUGH COOLING SYSTEMS (\$1,000)	78	79	80	81	82	83	84	85	86	87	88
COOLING PONDS (\$1,000)	78	79	80	81	82	83	84	85	86	87	88
COOLING TOWERS (\$1,000)	78	79	80	81	82	83	84	85	86	87	88
ANNUAL COOLING WATER EXPENSES											
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	89	90	91	92	93	94	95	96	97	98	99
COST OF CHEMICAL ADDITIVES (\$1,000)	89	90	91	92	93	94	95	96	97	98	99
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES											
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	100	101	102	103	104	105	106	107	108	109	110
COST OF CHEMICAL ADDITIVES (\$1,000)	100	101	102	103	104	105	106	107	108	109	110

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	2	LOS ANGELES DEPT. OF WATER & POWER	3	LOS ANGELES DEPT. OF WATER & POWER	4	LOS ANGELES DEPT. OF WATER & POWER	5	LOUISIANA POWER & LIGHT CO.	6	LOUISIANA POWER & LIGHT CO.	7		8		9		10		11	
2		3		4		5		6		7		8		9		10		11		12	
3	NAME OF PLANT	4	HAYNES	5	SCATTERGOOD	6	VALLEY	7	LITTLE GYPSY	8	NINE MILE	9		10		11		12		13	
4	UTILITY-PLANT CODE	5	274500-0800	6	274500-1200	7	274500-1600	8	275000-0100	9	275000-0200	10		11		12		13		14	
5	STATE	6	CALIFORNIA	7	CALIFORNIA	8	CALIFORNIA	9	LOUISIANA	10	LOUISIANA	11		12		13		14		15	
6	COUNTY	7	LOS ANGELES	8	LOS ANGELES	9	LOS ANGELES	10	SAINT CHARLES	11	JEFFERSON	12		13		14		15		16	
7	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	8	024	18	024	18	024	18	106	08	106	08		14		15		16		17	
8	PLANT CAPACITY (MW)	9	1,606.00	326.40	1,606.00	326.40	545.60		1,250.78		1,134.34			14		15		16		17	
9	ANNUAL GENERATION (MWH) 2/	10	8,579,400	1,586,200	1,586,200	1,722,100		6,574,200		4,739,900				14		15		16		17	
10	PLANT HEAT RATE (BTU/KWH) 2/	11	9,388	10,051	10,051	10,849		9,811		10,460				14		15		16		17	
AIR QUALITY CONTROL DATA																					
FUEL CONSUMPTION DATA (ANNUAL)																					
12	COAL: CONSUMPTION (1,000 TONS)	13												14		15		16		17	
13	AVERAGE HEAT CONTENT (BTU/LB)	14												14		15		16		17	
14	AVERAGE SULFUR CONTENT (%)	15												14		15		16		17	
15	AVERAGE ASH CONTENT (%)	16												14		15		16		17	
16	AVERAGE MOISTURE CONTENT (%)	17												14		15		16		17	
17	OIL: CONSUMPTION (1,000 BARRELS)	18	5,230.40	934.90	595.00			16.30						14		15		16		17	
18	AVERAGE HEAT CONTENT (BTU/GAL)	19	148,735	145,002	148,344			141,850						14		15		16		17	
19	AVERAGE SULFUR CONTENT (%)	20	.43	.44	.41			.10						14		15		16		17	
20	GAS: CONSUMPTION (1,000 MCF)	21	40,605.20	5,168.70	16,025.10			60,997.00						14		15		16		17	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	22	1,066	1,022	1,047			1,057						14		15		16		17	
PLANT EQUIPMENT DATA																					
22	BOILERS: - TOTAL NO.	23	6	2	4	3	4	22		23		24		25		26		27		28	
23	- NO. OF RET. BOTTOM	24						25		26		27		28		29		30		31	
24	- NO. WITH FLY ASH REINJECTION	25						26		27		28		29		30		31		32	
25	- NO. WITH MECHANICAL PRECIPITATORS	26						27		28		29		30		31		32		33	
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	27						28		29		30		31		32		33		34	
27	- NO. WITH COMBINATION PRECIPITATORS	28						29		30		31		32		33		34		35	
28	- NO. WITH DESULFURIZATION SYSTEMS	29						30		31		32		33		34		35		36	
29	- EXCESS AIR USED (%) LOWEST BOILER - HIGHEST BOILER	30						31		32		33		34		35		36		37	
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	31		27.50				32		33		34		35		36		37		38	
31	TESTED, LOW - HIGH	32						33		34		35		36		37		38		39	
32	ESTIMATED, LOW - HIGH	33						34		35		36		37		38		39		40	
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	34						35		36		37		38		39		40		41	
34	TESTED, LOW - HIGH	35						36		37		38		39		40		41		42	
35	ESTIMATED, LOW - HIGH	36						37		38		39		40		41		42		43	
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	37						38		39		40		41		42		43		44	
37	TESTED, LOW - HIGH	38						39		40		41		42		43		44		45	
38	ESTIMATED, LOW - HIGH	39						40		41		42		43		44		45		46	
PLANT OPERATING DATA AND COST OF EQUIPMENT																					
39	EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	40	.90	.11	.01	.01	.01	39		40		41		42		43		44		45	
40	SULFUR DIOXIDE (1,000 TONS)	41	7.72	1.38	.89	.89	.89	40		41		42		43		44		45		46	
41	NITROGEN OXIDES (1,000 TONS)	42	19.81	3.72	4.49	4.49	4.49	41		42		43		44		45		46		47	
42	STACKS: - TOTAL NO.	43	8	1	4	4	4	42		43		44		45		46		47		48	
43	- HEIGHT (FEET), LOWEST - HIGHEST	44	240.00	300.00	250.00	161.50	182.00	43		44		45		46		47		48		49	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)	45						44		45		46		47		48		49		50	
45	TOTAL ASH: COLLECTED (1,000 TONS)	46	2.00		.01			45		46		47		48		49		50		51	
46	SOLD (1,000 TONS)	47						46		47		48		49		50		51		52	
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	48						47		48		49		50		51		52		53	
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)	49						48		49		50		51		52		53		54	
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	50						49		50		51		52		53		54		55	
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	51		155.00	434.00			50		51		52		53		54		55		56	
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	52						51		52		53		54		55		56		57	
52	COMBINATION PRECIPITATORS (\$1,000)	53						52		53		54		55		56		57		58	
53	DESULFURIZATION SYSTEMS (\$1,000)	54						53		54		55		56		57		58		59	
54	STACKS (\$1,000)	55	850.00	384.00	612.00	561.00	114.00	54		55		56		57		58		59		60	
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	56	8.00	1.60	1.00			55		56		57		58		59		60		61	
56	REVENUES FROM SALE OF ASH (\$1,000)	57						56		57		58		59		60		61		62	
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	58						57		58		59		60		61		62		63	
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	59						58		59		60		61		62		63		64	
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000)	60	539.00	1.60	1.00			59		60		61		62		63		64		65	
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	61						60		61		62		63		64		65		66	
WATER QUALITY CONTROL DATA																					
61	COOLING WATER: SOURCE (CODES R, L, B, C, H, M & O EXPL. IN FOOTNOTES)	62	PACIFIC OCEAN	PACIFIC OCEAN	MISSISSIPPI	MISSISSIPPI	61		62		63		64		65		66		67		
62	AVERAGE RATE OF WITHDRAWAL (ICFS)	63	1,513.00	340.00	1,445.00	1,372.00	62		63		64		65		66		67		68		
63	AVERAGE RATE OF DISCHARGE (ICFS)	64	1,513.00	340.00	1,445.00	1,372.00	63		64		65		66		67		68		69		
64	AVG. RATE OF CONSUMPTION (ICFS), CALCULATED - REPORTED	65	13.01	2.92	12.43	11.80	64		65		66		67		68		69		70		
65	PEAK LOAD MONTH: SUMMER - WINTER	66	SEP	DEC	SEP	DEC	65		66		67		68		69		70		71		
66	MAX. TEMP. DURING PEAK MONTH IDEG, F. 1/ AT OVERFLOW, SUMMER - WINTER	67	75.00	61.00	73.00	63.00	66		67		68		69		70		71		72		
67	AT OUTFALL, SUMMER - WINTER	68	89.00	78.00	92.00	79.00	67		68		69		70		71		72		73		
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (ICFS): SUMMER - WINTER	69	10.55	355.00	267,000.00	267,000.00	68		69		70		71		72		73		74		
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, C, B	70	262.00	355.00	199,000.00	199,000.00	69		70		71		72		73		74		75		
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71					70		71		72		73		74		75		76		
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	.20	.10	11.05	.76	71		72		73		74		75		76		77		
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	73	.08	.10	4.11	1.00	72		73		74		75		76		77		78		
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74					73		74		75		76		77		78		79		
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75					74		75		76		77		78		79		80		
75	OTHER IYES (NO), COOLING WATER - BOILER MAKEUP	76	92.00	30.84	17.96	3.30	75		76		77		78		79		80		81		
76	SEWAGE DISPOSAL: METHOD (S, ST, SW, CT)	77	YES	PS	YES	PS	76		77		78		79		80		81		82		
77	RECEIVING WATER BODY	78	PACIFIC OCEAN	PACIFIC OCEAN	MISSISSIPPI	MISSISS															

TABLE 10, INDIVIDUAL PLANT DATA, 1971

NAME OF UTILITY	1	LOUISIANA POWER & LIGHT CO.	LOUISVILLE GAS & ELECTRIC CO.	LOUISVILLE GAS & ELECTRIC CO.	LOUISVILLE GAS & ELECTRIC CO.	LOWER COLORADO RIVER AUTH.	2
NAME OF PLANT	3	STERLINGTON	CANAL	CANE RUN	PAODYS RUN	COMAL	4
UTILITY-PLANT CODE	5	275000-0300	275000-0100	275000-0200	275000-0400	277000-0300	5
STATE	6	LOUISIANA	KENTUCKY	KENTUCKY	KENTUCKY	TEXAS	6
COUNTY	7	OUACHITA	JEFFERSON	JEFFERSON	JEFFERSON	COMAL	7
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	8	019 08	078 05	078 05	078 05	217 12	8
PLANT CAPACITY (MW)	9	351.53	50.00	1,017.00	337.50	60.00	9
ANNUAL GENERATION (MWH) 3/	10	1,463,800		5,124,200	518,400	378,900	10
PLANT HEAT RATE (BTU/KWH) 4/	11	10,950		10,111	13,829	15,766	11
AIR QUALITY CONTROL DATA							
FUEL CONSUMPTION DATA (ANNUAL)							
COAL: CONSUMPTION (1,000 TONS)	12			2,030.20	212.30		12
AVERAGE HEAT CONTENT (BTU/LB)	13			11,261	11,444		13
AVERAGE SULFUR CONTENT (%)	14			3.45	3.76		14
AVERAGE ASH CONTENT (%)	15			12.86	11.82		15
AVERAGE MOISTURE CONTENT (%)	16			8.92	8.36		16
OIL: CONSUMPTION (1,000 BARRELS)	17	25.00				2.00	17
AVERAGE HEAT CONTENT (BTU/GAL)	18	146,463				145,190	18
AVERAGE SULFUR CONTENT (%)	19	1.00				2.00	19
GAS: CONSUMPTION (1,000 MCF)	20	15,477.00		5,963.50	2,761.80	5,372.00	20
AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,013		1,025	1,025	1,047	21
PLANT EQUIPMENT DATA							
BOILERS: - TOTAL NO.	22	6	2	6	6	4	22
- NO. OF HOT BOTTOM	23						23
- NO. WITH FLY ASH REINJECTION	24						24
- NO. WITH MECHANICAL PRECIPITATORS	25						25
- NO. WITH ELECTROSTATIC PRECIPITATORS	26		2	6	6		26
- NO. WITH COMBINATION PRECIPITATORS 5/	27						27
- NO. WITH DESULFURIZATION SYSTEMS	28						28
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	8.00	25.00	21.00	25.00	25.00	29
MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30						30
TESTED, LOW - HIGH	31						31
ESTIMATED, LOW - HIGH	32						32
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 5/ DESIGN, LOW - HIGH	33	90.00	96.00	97.50	99.40	96.00	33
TESTED, LOW - HIGH	34			97.50	99.70	97.50	34
EST., LOW - HIGH	35			98.00	99.50	96.50	35
DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36						36
ESTIMATED, LOW - HIGH	37						37
PLANT OPERATING DATA AND COST OF EQUIPMENT							
EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	39			2.40	.43		39
SULFUR DIOXIDE (1,000 TONS)	40	.08		137.34	15.63	.01	40
NITROGEN OXIDES (1,000 TONS)	41	3.07		19.44	2.45	1.05	41
STACKS: - TOTAL NO.	42	4	1	6	5	2	42
- HEIGHT (FEET), LOWEST - HIGHEST 5/	43	125.00	250.00	211.70	257.00	235.00	43
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 5/	44						44
TOTAL ASH: COLLECTED (1,000 TONS) 10/	45				256.70	27.40	45
SOLD (1,000 TONS) 11/	46				32.20	.80	46
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	48						48
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49						49
INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50		122.00	3,003.00	990.00		50
ELECTROSTATIC PRECIPITATORS (\$1,000)	51						51
COMBINATION PRECIPITATORS (\$1,000) 4/	52						52
DESULFURIZATION SYSTEMS (\$1,000)	53						53
STACKS (\$1,000)	54	121.00	29.00	1,213.00	203.00	13.00	54
ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55			368.10	109.90		55
REVENUES FROM SALE OF ASH (\$1,000)	56			36.50	.90		56
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						57
REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58			368.10	109.90		58
TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	59			36.50	.90		59
TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60						60
WATER QUALITY CONTROL DATA							
COOLING WATER: SOURCE (CODES R, L, B, C, H, M & O EXPL. IN FOOTNOTES)	61	R OUACHITA	R OHIO	R OHIO	R OHIO	R COMAL	61
AVERAGE RATE OF WITHDRAWAL (CFS)	62	567.00		703.20	179.80	158.00	62
AVERAGE RATE OF DISCHARGE (CFS)	63	567.00		703.20	179.80	157.99	63
AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	64	4.88		6.05	1.55	.01	64
PEAK LOAD MONTH: SUMMER - WINTER 15/	65	AUG OCT	JUL FEB	MAY FEB	JUL NOV		65
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	88.00 84.00	86.00 43.00	65.00 53.00	79.00 77.00		66
AT OUTFALL, SUMMER - WINTER	67	104.00 101.00	98.00 64.00	78.00 53.00	95.00 85.00		67
AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	68	1,407.00	36,700.00	169,500.00	121.00		68
9.913.00	69		262,300.00	262,300.00	293.00		69
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OIL	70						70
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71	.23		2.55	2.49	.35	71
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	3.25		.45	.64	.38	72
LIME (TONS), COOLING WATER - BOILER MAKEUP	73						73
ALUM (TONS), COOLING WATER - BOILER MAKEUP	74						74
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	1.50		264.00	35.00	24.92	75
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76	YES	PS	YES	YES	YES	76
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 16/	77	ST	PS	OT	PS	PS	77
RECEIVING WATER BODY	78						78
POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	79		9.00	10.00	10.50	11.00	79
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80		10.00	10.00	10.00	87.30	80
VOLUME (1,000 CU.FT/YR), BOILER BLOWDOWN - ASH SETTLING	81			110.00	226.00	170.60	81
	82		2.00	355,000.00	65,662.00		82
COOLING FACILITY DATA							
NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	83	4 351.53	2 50.00	6 1,016.69	6 337.50		83
ONCE THROUGH COOLING (SALINE)	84						84
COOLING PONDS 17/	85						85
COOLING TOWERS 18/	86						86
COMBINATIONS 19/	87						87
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1928 1958	1937 1941	1954 1969	1942 1952	2 1956	88
DESIGN: TEMP. DIFF. ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 20/	89	13.00 17.00	10.00 12.00	13.00 16.00	10.00 15.00	15.00	89
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	544.00	214.50	1,253.70	632.80	200.00	90
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	566.00	214.50	1,253.70	632.80	200.00	91
CAPITAL COSTS OF COOLING FACILITIES							
ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	1,176.00	155.00	8,094.00	3,260.00	225.00	92
COOLING PONDS (\$1,000)	93					328.00	93
COOLING TOWERS (\$1,000)	94						94
ANNUAL COOLING WATER EXPENSES							
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95		3.90	100.20	50.00	6.00	95
COST OF CHEMICAL ADDITIVES (\$1,000)	96	1.00		29.00	8.00		96
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97			172.70	37.00	.25	97
COST OF CHEMICAL ADDITIVES (\$1,000)	98	5.50		13.00	6.00		98

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	LOWER COLORADO RIVER AUTH.	LU880CK, CITY OF	LU880CK, CITY OF	MAOISON GAS & ELECTRIC CO.	MASSACHUSETTS ELECTRIC CO.	1	
2	NAME OF PLANT	2	GIDEON	HOLLY AVE	PLANT NO. 2	BLOUNT	LYNNWAY	2	
3	UTILITY-PLANT CODE	3	277000-0800	278000-0100	278000-0300	283500-0100	296000-0100	3	
4	STATE	4	TEXAS	TEXAS	TEXAS	WISCONSIN	MASSACHUSETTS	4	
5	COUNTY	5	BASTROP	LU880CK	LU880CK	OANE	ESSEX	5	
6	AIR QUALITY CONTROL REGION NO. 1 - WATER RESOURCE REGION NO. 2	6	212 12	211 12	211 12	240 07	119 01	6	
7	PLANT CAPACITY (MW)	7	250.00	50.00	80.50	195.50	49.00	7	
8	ANNUAL GENERATION (MWH) 2	8	1,558,900	218,500	241,600	927,800	172,300	8	
9	PLANT HEAT RATE (BTU/KWH) 3	9	9,900	13,250	15,368	11,952	17,067	9	
10	PLANT HEAT RATE (BTU/KWH) 3	10						10	
11	PLANT HEAT RATE (BTU/KWH) 3	11						11	
AIR QUALITY CONTROL DATA									
FUEL CONSUMPTION DATA (ANNUAL)									
12	COAL: CONSUMPTION (1,000 TONS)	12				149.20		12	
13	AVERAGE HEAT CONTENT (BTU/LB)	13				11,668		13	
14	AVERAGE SULFUR CONTENT (%)	14				3.12		14	
15	AVERAGE ASH CONTENT (%)	15				8.80		15	
16	AVERAGE MOISTURE CONTENT (%)	16				10.21		16	
17	OIL: CONSUMPTION (1,000 BARRELS)	17				24.70	480.00	17	
18	AVERAGE HEAT CONTENT (BTU/GAL)	18				37,900	147,971	18	
19	AVERAGE SULFUR CONTENT (%)	19				1.28	1.52	19	
20	GAS: CONSUMPTION (1,000 MCF)	20	16,029.00	2,308.50	3,363.10	8,304.60		20	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,018	1,051	1,047	1,017		21	
PLANT EQUIPMENT DATA									
22	BOILERS: - TOTAL NO.	22	2	1	5	9	4	22	
23	- NO. OF WET BOTTOM	23				2		23	
24	- NO. WITH FLY ASH REINJECTION	24						24	
25	- NO. WITH MECHANICAL PRECIPITATORS	25				5		25	
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26						26	
27	- NO. WITH COMBINATION PRECIPITATORS 4	27						27	
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28	
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5	29	8.00 10.00	10.00	7.00 15.00	10.00 25.00	12.00 25.00	29	
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30				85.00		30	
31	TESTED, LOW - HIGH	31						31	
32	ESTIMATED, LOW - HIGH	32				85.00		32	
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 5: DESIGN, LOW - HIGH	33						33	
34	TESTED, LOW - HIGH	34						34	
35	EST., LOW - HIGH	35						35	
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36						36	
37	TESTED, LOW - HIGH	37						37	
38	ESTIMATED, LOW - HIGH	38						38	
PLANT OPERATING DATA AND COST OF EQUIPMENT									
39	EST. TOTAL ANNUAL PLANT EMISSIONS 2: PARTICULATE MATTER (1,000 TONS)	39				1.59	.08	39	
40	SULFUR DIOXIDE (1,000 TONS)	40				9.19	2.43	40	
41	NITROGEN OXIDES (1,000 TONS)	41	3.13	.45	.66	2.92	1.05	41	
42	STACKS: - TOTAL NO.	42	2	1	5	6	2	42	
43	- HEIGHT (FEET), LOWEST - HIGHEST 4	43	154.00	94.50	45.00 56.00	90.00 250.00	174.00	43	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 2	44						44	
45	TOTAL ASH: COLLECTED (1,000 TONS) 10	45				9.10		45	
46	SOLD (1,000 TONS) 11	46						46	
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47	
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 22	48						48	
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49						49	
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50				381.00		50	
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51						51	
52	COMBINATION PRECIPITATORS (\$1,000) 4	52						52	
53	DESULFURIZATION SYSTEMS (\$1,000)	53						53	
54	STACKS (\$1,000)	54	17.20			277.00	18.38	54	
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55				30.00		55	
56	REVENUES FROM SALE OF ASH (\$1,000)	56						56	
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						57	
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						58	
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 12	59	6.32			30.00		59	
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60						60	
WATER QUALITY CONTROL DATA									
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & D EXPL. IN FOOTNOTES)	61	R COLORADO	M	M	L MONONA	H LYNN	61	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	7.54	.93	1.07	152.00	85.63	62	
63	AVERAGE RATE OF DISCHARGE (CFS)	63		.23	.27	151.00	85.63	63	
64	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 24	64	7.54	.70	.80	1.31	.74	64	
65	PEAK LOAD MONTH: SUMMER - WINTER 2	65	OCT MAR	JUL DEC	JUL DEC	79.00 40.00	63.00 31.00	65	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	63.00 68.00	57.00 57.00	65.00 57.00	79.00 40.00	63.00 31.00	66	
67	AT OUTFALL, SUMMER - WINTER	67	90.00 75.00	95.00 92.00	104.00 97.00	105.00 170.00	77.00 38.00	67	
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68	359.00	1.03	1.38	170.00	75.00	68	
69	- WINTER	69	316.00	.82	.76	156.00	99.89	69	
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O 16	70						70	
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71						71	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	.16	3.20	.06	11.11	.08	72	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73		2.50	.09	.10	.21	73	
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74	1.20					74	
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	.40					75	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76	16.00	.80	2.50		88.00	76	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 16	77	YES	YES	YES	YES	YES	77	
78	RECEIVING WATER BODY	78	OT L BASTROP	SW O IRRIG. POND	PS	PS	PS	78	
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	79						79	
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80				11.00		80	
81	VOLUME (1,000 CU.FT./YR), BOILER BLOWDOWN	81				1.00		81	
82	- ASH SETTLING	82				1,480.00		82	
COOLING FACILITY DATA									
83	NO. OF UNITS AND CAPACITY (MW) USING 2: ONCE THROUGH COOLING (FRESH)	83				7	176.00	83	
84	ONCE THROUGH COOLING (SALINE)	84						84	
85	COOLING POND(S)	85	2	250.00	1	50.00	5	80.50	85
86	COMBINATIONS 22	86							86
87	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	87							87
88	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22	88	9.97 1964	1965	1949 1958	1922 1961			88
89	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	89	11.65	14.00	15.00	279.20	16.00		89
90	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	90	499.00	78.66	190.23	243.00	159.00		90
91		91							91
CAPITAL COSTS OF COOLING FACILITIES									
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92				1,711.00		92	
93	COOLING PONDS (\$1,000)	93	3,650.00					93	
94	COOLING TOWERS (\$1,000)	94			275.14			94	
ANNUAL COOLING WATER EXPENSES									
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	32.10			16.00		95	
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	1.82	11.60	23.00		11.00	96	
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES									
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	24.91			40.00	2.00	97	
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	4.98	2.92	6.00	7.00	5.00	98	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

NAME OF UTILITY	1	MASSACHUSETTS ELECTRIC CO.	METRO EDISON CO.	METRO EDISON CO.	METRO EDISON CO.	METRO EDISON CO.	1
NAME OF PLANT	2	WEBSTER	CRAWFORD	EYLER	PORTLAND	TITUS	2
UTILITY-PLANT CODE	3	296000-0200	303500-0100	303500-0200	303500-0300	303500-0400	3
STATE	4	MASSACHUSETTS	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	4
COUNTY	5	WORCESTER	DAUPHIN	BERKS	NORTHAMPTON	BERKS	5
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	118 01	196 02	151 02	151 02	151 02	6
PLANT CAPACITY (MW)	7	34.50	116.70	84.00	426.70	225.00	7
ANNUAL GENERATION (MWH) 3/	8	151,300	277,700	96,700	2,592,800	1,433,900	8
PLANT HEAT RATE (BTU/KWH) 3/	9	13,724	16,357	19,670	9,749	10,384	9

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	12	76.60	108.00	52.00	1,035.00	608.00	12
AVERAGE HEAT CONTENT (BTU/LB)	13	12,995	12,981	12,590	12,044	12,023	13
AVERAGE SULFUR CONTENT (%)	14	.95	2.04	2.80	2.53	2.40	14
AVERAGE ASH CONTENT (%)	15	8.75	11.20	12.75	14.33	13.79	15
AVERAGE MOISTURE CONTENT (%)	16	6.30	4.78	4.71	6.22	6.69	16
OIL: CONSUMPTION (1,000 BARRELS)	17	26.30	279.40	112.70	61.90	43.20	17
AVERAGE HEAT CONTENT (BTU/GAL)	18	138,500	148,075	136,961	136,347	137,605	18
AVERAGE SULFUR CONTENT (%)	19	.29	1.37	.35	.30	.46	19
GAS: CONSUMPTION (1,000 MCF)	20						20
AVERAGE HEAT CONTENT (BTU/CU.FT.)	21						21

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	22	1	8	8	2	3	22
- NO. OF WET BOTTOM	23						23
- NO. WITH FLY ASH REINJECTION	24						24
- NO. WITH MECHANICAL PRECIPITATORS	25	1					25
- NO. WITH ELECTROSTATIC PRECIPITATORS	26		2	2		3	26
- NO. WITH COMBINATION PRECIPITATORS 4/	27				2		27
- NO. WITH DESULFURIZATION SYSTEMS	28				1		28
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	22.00	15.00	26.00	4.00	20.00	29
MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30	88.30					30
TESTED, LOW - HIGH	31						31
ESTIMATED, LOW - HIGH	32	80.10					32
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	33		94.00	90.00	99.00	99.00	33
TESTED, LOW - HIGH	34		85.90	93.52	78.40	96.70	34
EST., LOW - HIGH	35		85.90	93.52	75.00	96.70	35
DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36				98.20	90.00	36
TESTED, LOW - HIGH	37						37
ESTIMATED, LOW - HIGH	38						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	39	1.13	1.11	1.59	1.84	2.35	39
SULFUR DIOXIDE (1,000 TONS)	40	1.45	5.60	2.99	51.39	28.67	40
NITROGEN OXIDES (1,000 TONS)	41	1.75	1.59	0.64	9.45	5.57	41
STACKS: - TOTAL NO.	42	1	3	2	2	3	42
- HEIGHT (FEET), LOWEST - HIGHEST 6/	43	175.00	200.00	242.00	400.00	200.00	43
COMBUSTION CYCLE ADITIVES (1,000 TONS) 9/	44						44
TOTAL ASH: COLLECTED (1,000 TONS) 10/	45	6.50	11.00	7.60	139.70	118.50	45
SOLD (1,000 TONS) 11/	46			2.60	31.50	43.20	46
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	48						48
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49						49
INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50	40.00				843.00	50
ELECTROSTATIC PRECIPITATORS (\$1,000)	51		120.00	100.00			51
COMBINATION PRECIPITATORS (\$1,000) 4/	52				1,355.00		52
DESULFURIZATION SYSTEMS (\$1,000)	53						53
STACKS (\$1,000)	54	34.00	64.00	62.00	480.00	226.00	54
ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	26.90					55
REVENUES FROM SALE OF ASH (\$1,000)	56				13.80	5.00	56
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						57
REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						58
TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	59	40.90					59
TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60		.50		13.80	5.00	60

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	O CURTIS POND	R SUSQUEHANNA	R SCHUYLKILL	R DELAWARE	R SCHUYLKILL	61
AVERAGE RATE OF WITHDRAWAL (CFS)	62	43.00	182.00	80.00	494.00	194.30	62
AVERAGE RATE OF DISCHARGE (CFS)	63	43.00	182.00	80.00	494.00	194.20	63
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 12/	64		1.57	.69	4.25	1.67	64
PEAK LOAD MONTH:	65	SEP	JAN	SEP	FEB	SEP	65
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER 13/	66	80.00	50.00	84.00	44.00	80.00	66
AT OUTFALL, SUMMER - WINTER	67	95.00	67.00	104.00	86.00	92.00	67
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	68		17.00	9,078.00	1,200.00	8,700.00	68
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, DIS/	69		20.00	118,632.00	4,432.00	11,000.00	69
CHEMICAL ADITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70						70
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71	.38	1.96		.15	.40	71
LIME (TONS), COOLING WATER - BOILER MAKEUP	72	.28	1.83		114.54		72
ALUM (TONS), COOLING WATER - BOILER MAKEUP	73						73
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74		7.36			62.58	74
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75	1.80	11.75	1.25	2.80	48.00	75
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 14/	76	PS	YES	YES	YES	YES	76
RECEIVING WATER BODY	77		ST	R SCHUYLKILL	OT	R SCHUYLKILL	77
POND DISCHARGE 15/	78		O FRENCH DRAIN				78
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79	9.50	7.00	228.00	7.00	5.90	79
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	80	20.00					80
VOLUME (1,000 CU.FT/YR), BOILER BLOWDOWN - ASH SETTLING	81						81
	82	122.65		149.00	173,000.00	105,000.00	82

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	83		4	122.00	3	84.00	2	394.50	3	225.00	83	
ONCE THROUGH COOLING (ISALINE)	84										84	
COOLING POND(S)	85										85	
COOLING TOWER(S)	86										86	
COMBINATIONS 22/	87	1	34.50								87	
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88		1950	1924	1947	1919	1923	1958	1962	1951	1953	88
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 23/	89			10.00	18.00	15.00	19.00	15.00	19.00		20.00	89
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90		55.00		362.00		145.00		468.00		246.60	90
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91		60.00		364.00		148.00		486.00		246.60	91

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	281.50	776.00	428.00	3,447.00	1,146.00	92
COOLING PONDS (\$1,000)	93						93
COOLING TOWERS (\$1,000)	94	338.00					94

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	29.00					95
COST OF CHEMICAL ADITIVES (\$1,000)	96						96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	25.00					97
COST OF CHEMICAL ADITIVES (\$1,000)	98	.43					98

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	14	MILLSTONE POINT COMPANY	MINNESOTA POWER & LIGHT CO.	MINNESOTA POWER & LIGHT CO.	MINNESOTA POWER & LIGHT CO.	MINNKCTA POWER & COOP.	
2	NAME OF PLANT	15	MILLSTONE #1	AURORA	80SMELL	HIBBARO	YOUNG	
3	UTILITY-PLANT CODE	16	305800-0100	307000-0100	307000-0300	307000-0700	307500-0550	
4	STATE	17	CONNECTICUT	MINNESOTA	MINNESOTA	MINNESOTA	NORTH DAKOTA	
5	COUNTY	18	NEW LONDON	ST. LOUIS	ITASCA	ST. LOUIS	OLIVER	
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	19	041 01	129 09	129 07	129 04	172 10	
7	PLANT CAPACITY (MW)	20	661.50	116.10	150.00	122.50	256.50	
8	ANNUAL GENERATION (MWH) 3/	21	3,579,797	470,600	916,500	508,000	1,550,400	
9	PLANT HEAT RATE (BTU/KWH) 4/	22	10,600	12,365	10,742	14,614	10,649	
AIR QUALITY CONTROL DATA								
FUEL CONSUMPTION DATA (ANNUAL)								
12	COAL: CONSUMPTION (1,000 TONS)	12		351.30	576.90	293.40	1,280.10	
13	AVERAGE HEAT CONTENT (BTU/LB)	13		8,253	8,502	9,778	6,379	
14	AVERAGE SULFUR CONTENT (%)	14		.95	.87	1.40	.70	
15	AVERAGE ASH CONTENT (%)	15		10.28	9.69	9.60	8.65	
16	AVERAGE MOISTURE CONTENT (%)	16		27.28	26.28	19.30	38.57	
17	OIL: CONSUMPTION (1,000 BARRELS)	17		20.90	2.50		34.30	
18	AVERAGE HEAT CONTENT (BTU/GAL)	18		137,000	137,000		140,000	
19	AVERAGE SULFUR CONTENT (%)	19		2.30	.03		.10	
20	GAS: CONSUMPTION (1,000 MCF)	20				1,457.80		
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21				1,005		
PLANT EQUIPMENT DATA								
22	BOILERS: - TOTAL NO.	22		2	2	4	1	
23	- NO. OF WET BOTTOM	23					1	
24	- NO. WITH FLY ASH REINJECTION	24						
25	- NO. WITH MECHANICAL PRECIPITATORS	25		2	2	4	1	
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26						
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27						
28	- NO. WITH DESULFURIZATION SYSTEMS	28						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29		22.00	20.00	26.60	26.80	
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30		85.00	85.50	30.20	85.80	
31	TESTED, LOW - HIGH	31						
32	ESTIMATED, LOW - HIGH	32		97.80	85.50	30.20	85.00	
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/ DESIGN, LOW - HIGH	33						
34	TESTED, LOW - HIGH	34						
35	EST., LOW - HIGH	35						
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36						
37	TESTED, LOW - HIGH	37						
38	ESTIMATED, LOW - HIGH	38						
PLANT OPERATING DATA AND COST OF EQUIPMENT								
39	EST. TOTAL ANNUAL PLANT EMISSIONS 7/	39		.68	6.89	5.41	3.32	
40	PARTICULATE MATTER (1,000 TONS)	40		6.70	9.84	8.05	17.56	
41	SULFUR DIOXIDE (1,000 TONS)	41		3.21	5.20	2.92	35.28	
42	NITROGEN OXIDES (1,000 TONS)	42		2	1	3	1	
43	STACKS: - TOTAL NO.	43		139.00	300.00	250.00	218.00	
44	- HEIGHT (FEET), LOWEST - HIGHEST 8/	44						
45	COMBUSTION CYCLE ADJUSTIVES (1,000 TONS) 9/	45						
46	TOTAL ASH: COLLECTED (1,000 TONS) 10/	46		35.20	48.00	24.60	100.80	
47	SOLO (1,000 TONS) 11/	47						
48	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	48						
49	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	49						
50	ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	50						
51	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	51		51.00	84.00	111.00	220.00	
52	ELECTROSTATIC PRECIPITATORS (\$1,000)	52						
53	COMBINATION PRECIPITATORS (\$1,000) 4/	53						
54	DESULFURIZATION SYSTEMS (\$1,000)	54						
55	STACKS (\$1,000)	55		428.00	133.00	95.00	218.00	
56	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	56		19.50	11.90	18.00	45.00	
57	REVENUES FROM SALE OF ASH (\$1,000)	57						
58	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	58						
59	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	59						
60	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	60		21.20	11.90	18.00	45.00	
61	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	61						
WATER QUALITY CONTROL DATA								
62	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	62	B NIAN TIC	L COLBY	R MISSISSIPPI	R ST. LOUIS	C SQUARE BUTTE	
63	AVERAGE RATE OF WITHDRAWAL (CFS)	63	988.56	210.00	176.60	364.00	15.80	
64	AVERAGE RATE OF DISCHARGE (CFS)	64	988.56	210.00	176.60	364.00	12.10	
65	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	65	8.50	1.81	1.52	3.13	3.70	
66	PEAK LOAD MONTH: SUMMER - WINTER 15/	66	JUL DEC	SEP NOV	SEP NOV	SEP NOV	MAY FEB	
67	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	67	63.00 46.00	80.00 58.00	57.00 38.00	72.00 56.00	60.00 32.00	
68	AT OUTFALL, SUMMER - WINTER	68	90.00 68.00	88.00 67.00	69.00 59.00	84.00 67.00	65.00 36.00	
69	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	69	126,287.00	18.30	292.60	1,646.00	1.88	
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O 16/	70	126,287.00	279.30	2,205.00	10,395.00	.50	
71	CHEMICAL ADJUSTIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71		.71	2.50	.90	.20	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72		.52	19.82	.12	89.00	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73	258.00				38.50	
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74					5.80	
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75		9.61				
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76	212.50	2.45	1.20	15.00	.15	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 17/	77	YES	YES	YES	YES	YES	
78	RECEIVING WATER BODY	78	ST	ST	ST	OT	OT	
79	POND DISCHARGE 18/	79	ST	R PARTRIDGE	R MISSISSIPPI	R ST. LOUIS	C SQUARE BUTTE	
80	SUSPENDED SOLIDS (PPH), BOILER BLOWDOWN - ASH SETTLING	80	10.10	4.20	9.50	8.50	8.70	
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81	.19	4.50	.40	5.80	5.50	
82	BOILER BLOWDOWN - ASH SETTLING	82	56.30	56,000.00	11,500.00	56,800.00		
			27,400.00					
COOLING FACILITY DATA								
83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	83	1	661.50	2	150.00	4	124.50
84	ONCE THROUGH COOLING (SALINE)	84						
85	COOLING POND(S)	85					1	256.50
86	COOLING TOWER(S)	86						
87	COMBINATIONS 22/	87						
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1968	1953	1958	1959	1931	1951
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 23/	89	21.30	14.00	13.50	15.00	26.00	20.00
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	935.00	186.00	234.00	356.40	250.00	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	935.00	210.00	240.00	364.00		
CAPITAL COSTS OF COOLING FACILITIES								
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92		428.00	1,200.00	408.00		
93	COOLING PONDS (\$1,000)	93					850.00	
94	COOLING TOWERS (\$1,000)	94						
ANNUAL COOLING WATER EXPENSES								
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	105.00	29.00	22.00	46.50	3.00	
96	COST OF CHEMICAL ADJUSTIVES (\$1,000)	96	17.00	.40	2.50	8.50	1.00	
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES								
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	20.50	10.80	2.20	21.00	8.00	
98	COST OF CHEMICAL ADJUSTIVES (\$1,000)	98	31.19	3.47	6.40	.30	37.00	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

NAME OF UTILITY	1	MISSISSIPPI POWER CO.	MISSISSIPPI POWER CO.	MISSISSIPPI POWER CO.	MISSISSIPPI POWER & LIGHT CO.	MISSISSIPPI POWER & LIGHT CO.	1
NAME OF PLANT	2	EATON	SWEATT	WATSON	WILSON	DELTA	2
UTILITY-PLANT CODE	3	308000-0100	308000-0300	308000-0400	308500-0100	308500-0300	3
STATE	4	MISSISSIPPI	MISSISSIPPI	MISSISSIPPI	MISSISSIPPI	MISSISSIPPI	4
COUNTY	5	FORREST	LAUDERDALE	HARRISON	WARREN	BOLIVAR	5
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	005	03	005	03	134	6
PLANT CAPACITY (MM)	7	77.63	95.00	595.50	1,327.60	220.50	7
ANNUAL GENERATION (MMH) 3/	8	337,200	566,500	3,106,000	3,129,600	849,400	8
PLANT HEAT RATE (BTU/KWH) 3/	9	14,121	13,382	10,637	10,416	11,211	9
AIR QUALITY CONTROL DATA							
FUEL CONSUMPTION DATA (ANNUAL)							
COAL: CONSUMPTION (1,000 TONS)	12			498.20			12
AVERAGE HEAT CONTENT (BTU/LB)	13			12,047			13
AVERAGE SULFUR CONTENT (%)	14			2.43			14
AVERAGE ASH CONTENT (%)	15			11.55			15
AVERAGE MOISTURE CONTENT (%)	16			7.03			16
OIL: CONSUMPTION (1,000 BARRELS)	17	76.96	76.69	74.60	397.70	116.36	17
AVERAGE HEAT CONTENT (BTU/GAL)	18	145,704	144,610	138,870	140,000	153,748	18
AVERAGE SULFUR CONTENT (%)	19	3.88	3.72	.17	.20	3.70	19
GAS: CONSUMPTION (1,000 MCF)	20	4,190.60	5,843.60	19,034.00	28,873.58	8,717.79	20
AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,024	1,087	1,057	1,039	1,016	21
PLANT EQUIPMENT DATA							
BOILERS: - TOTAL NO.	22	3	2	4	2	2	22
- NO. OF WET BOTTOM	23						23
- NO. WITH FLY ASH REINJECTION	24						24
- NO. WITH MECHANICAL PRECIPITATORS	25						25
- NO. WITH ELECTROSTATIC PRECIPITATORS	26			1			26
- NO. WITH COMBINATION PRECIPITATORS 4/	27						27
- NO. WITH DESULFURIZATION SYSTEMS	28						28
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	10.00	17.00	11.00	6.00	8.00	29
MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30						30
TESTED, LOW - HIGH	31						31
ESTIMATED, LOW - HIGH	32						32
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/	33			98.00			33
DESIGN, LOW - HIGH	34			97.30			34
TESTED, LOW - HIGH	35			97.30			35
EST., LOW - HIGH	36						36
DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	37						37
TESTED, LOW - HIGH	38						38
ESTIMATED, LOW - HIGH	39						39
PLANT OPERATING DATA AND COST OF EQUIPMENT							
EST. TOTAL ANNUAL PLANT EMISSIONS 2/	40						40
PARTICULATE MATTER (1,000 TONS)	41	.01	.01	1.33	.07	.02	41
SULFUR DIOXIDE (1,000 TONS)	42	1.00	.96	23.77	.27	1.44	42
NITROGEN OXIDES (1,000 TONS)	43	.99	1.31	8.36	6.51	1.96	43
STACKS: - TOTAL NO.	44	2	1	4	3	4	44
- HEIGHT (FEET), LOWEST - HIGHEST 6/	45	125.00	175.00	169.00	350.00	236.00	45
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 7/	46						46
TOTAL ASH: COLLECTED (1,000 TONS) 10/	47			57.90			47
SOLD (1,000 TONS) 11/	48						48
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	49						49
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	50						50
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	51						51
INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	52			393.50			52
ELECTROSTATIC PRECIPITATORS (\$1,000)	53						53
COMBINATION PRECIPITATORS (\$1,000) 4/	54						54
DESULFURIZATION SYSTEMS (\$1,000)	55						55
STACKS (\$1,000)	56	39.00	49.00	269.60		60.00	56
ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57			53.50			57
REVENUES FROM SALE OF ASH (\$1,000)	58						58
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	59						59
REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	60						60
TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	61			53.50		5.00	61
TOTAL BYPRODUCT SALES REVENUES (\$1,000)	62						62
WATER QUALITY CONTROL DATA							
COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. III FOOTNOTES)	63	R LEAF	W	8 BILOXI BAY EST	R MISSISSIPPI	C PONO	63
AVERAGE RATE OF WITHDRAWAL (CFS)	64	178.00		752.00	1,027.00	6.02	64
AVERAGE RATE OF DISCHARGE (CFS)	65	178.00		752.00	1,027.00	6.02	65
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	66	1.53		6.47	8.83	6.02	66
PEAK LOAD MONTH: 1/	67	JUL	DEC	JUL	AUG	JAN	67
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	68	89.00	71.00	90.00	70.00	86.00	68
AT OUTFALL, SUMMER - WINTER	69	111.00	79.00	112.00	91.60	112.00	69
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	70	1,120.00		850.00	354,200.00	677,500.00	70
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, DM 15/	71			1,880.00			71
CHEMICAL ADDITIVES: PHOSPHATE (TONS)	72						72
CAUSTIC SODA (TONS)	73	.10	.08	.30		.50	73
LINE (TONS)	74	.95		3.15	253.18	4.00	74
ALUM (TONS)	75		6.25				75
CHLORINE (TONS)	76	7.00			2.08	.10	76
OTHER (YES/NO)	77	YES	YES	YES	YES	YES	77
SEWAGE DISPOSAL: METHOD RS, ST, SW, OT 14/	78	ST	ST	ST	OT	ST	78
RECEIVING WATER BODY	79				R MISSISSIPPI		79
POND DISCHARGE: PH, SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80						80
BOILER BLOWDOWN - ASH SETTLING	81				9.00		81
BOILER BLOWDOWN - ASH SETTLING	82						82
BOILER BLOWDOWN - ASH SETTLING	83						83
BOILER BLOWDOWN - ASH SETTLING	84						84
BOILER BLOWDOWN - ASH SETTLING	85						85
BOILER BLOWDOWN - ASH SETTLING	86						86
BOILER BLOWDOWN - ASH SETTLING	87						87
BOILER BLOWDOWN - ASH SETTLING	88						88
BOILER BLOWDOWN - ASH SETTLING	89						89
BOILER BLOWDOWN - ASH SETTLING	90						90
BOILER BLOWDOWN - ASH SETTLING	91						91
BOILER BLOWDOWN - ASH SETTLING	92						92
BOILER BLOWDOWN - ASH SETTLING	93						93
BOILER BLOWDOWN - ASH SETTLING	94						94
COOLING FACILITY DATA							
NO. OF UNITS AND CAPACITY (MM) USING 25/	83	3	77.64	4	595.50	2	1,327.60
ONCE THROUGH COOLING (FRESH)	84						
ONCE THROUGH COOLING (SALINE)	85						
COOLING PONDS (S)	86						
COOLING TOWERS (S)	87						
COMBINATIONS 26/	88						
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	89	1945	1949	1951	1953	1957	1968
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 27/	90	13.80	15.70	13.70	19.95	28.00	28.30
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	91	171.00	145.60		683.00	896.00	308.00
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	92	177.00			752.00	916.00	308.00
CAPITAL COSTS OF COOLING FACILITIES							
ONCE THROUGH COOLING SYSTEMS (\$1,000)	93	248.00		1,090.70		6,190.20	380.00
COOLING PONDS (\$1,000)	94						595.50
COOLING TOWERS (\$1,000)	95			739.00			17.18
ANNUAL COOLING WATER EXPENSES							
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	96	10.10	7.37	19.25		97.00	12.00
COST OF CHEMICAL ADDITIVES (\$1,000)	97	1.60	15.04	23.30		.40	.75
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	98	7.00	12.55	51.40		15.00	22.50
COST OF CHEMICAL ADDITIVES (\$1,000)	99	.30	.67	23.95		15.50	2.00

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	MISSISSIPPI POWER & LIGHT CO.	MISSISSIPPI POWER & LIGHT CO.	MISSOURI PUBLIC SERVICE CO.	MISSOURI PUBLIC SERVICE CO.	MONONGAHELA (ALLEGHENY) POWER CO.
2	NAME OF PLANT	2	NATCHEZ	BROWN	GREEN	SIBLEY	ALBRIGHT
3	UTILITY-PLANT CODE	3	308500-0400	308500-0500	309500-0400	309500-0700	311000-0100
4	STATE	4	MISSISSIPPI	MISSISSIPPI	MISSOURI	MISSOURI	WEST VIRGINIA
5	COUNTY	5	ADAMS	HINDS	CASS	JACKSON	PRESTON
6	AIR QUALITY CONTROL REGION NO. 1 - WATER RESOURCE REGION NO. 2	6	005 08	005 08	094 10	094 10	235 05
7	PLANT CAPACITY (MW)	7	66.00	383.20	49.50	518.50	278.25
8	ANNUAL GENERATION (MWH) 2	8	319,500	1,423,400	120,200	1,363,300	1,413,500
9	PLANT HEAT RATE (BTU/KWH) 2	9	12,421	12,384	14,501	10,620	11,082
AIR QUALITY CONTROL DATA							
FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)	12					
13	AVERAGE HEAT CONTENT (BTU/LB)	13			10,015	593.70	992.90
14	AVERAGE SULFUR CONTENT (%)	14			3.30	12,215	11,050
15	AVERAGE ASH CONTENT (%)	15			12.80	3.67	2.74
16	AVERAGE MOISTURE CONTENT (%)	16			14.70	11.87	21.54
17	OIL: CONSUMPTION (1,000 BARRELS)	17				6.19	5.80
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	23.84	138.00			4.23
19	AVERAGE SULFUR CONTENT (%)	19	152,428	153,213			139,000
20	GAS: CONSUMPTION (1,000 MCF)	20					.25
21	AVERAGE HEAT CONTENT (BTU/CU. FT.)	21	4,009.28	16,205.13	1,711.00		
PLANT EQUIPMENT DATA							
22	BOILERS: - TOTAL NO.	22	1	4	2	3	3
23	- NO. OF WET BOTTOM	23					
24	- NO. WITH FLY ASH REINJECTION	24					
25	- NO. WITH MECHANICAL PRECIPITATORS	25			2	2	2
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26				1	
27	- NO. WITH COMBINATION PRECIPITATORS 4	27					1
28	- NO. WITH DESULFURIZATION SYSTEMS	28					
29	- EXCESS AIR USED (%)	29	17.00	8.00	17.00	15.00	20.00
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30			94.00	85.00	83.00
31	TESTED, LOW - HIGH	31					83.00
32	ESTIMATED, LOW - HIGH	32			94.00	89.00	92.00
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	33				99.00	97.50
34	TESTED, LOW - HIGH	34					93.00
35	EST., LOW - HIGH	35				99.00	
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36					
37	TESTED, LOW - HIGH	37					
38	ESTIMATED, LOW - HIGH	38					
PLANT OPERATING DATA AND COST OF EQUIPMENT							
39	EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	39				.25	23.03
40	SULFUR DIOXIDE (1,000 TONS)	40	.13	.02		42.71	53.33
41	NITROGEN OXIDES (1,000 TONS)	41	.83	3.46	.34	16.33	8.95
42	STACKS: - TOTAL NO.	42	2	6	2	3	3
43	- HEIGHT (FEET), LOWEST - HIGHEST 2	43	141.00	150.00	150.00	183.00	700.00
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 2	44				128.00	225.00
45	TOTAL ASH: COLLECTED (1,000 TONS) 2	45					
46	SOLO (1,000 TONS) 2	46			.04	71.00	178.60
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47					.70
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 2	48					
49	ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	49					
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50			75.00		424.00
51	COMBINATION PRECIPITATORS (\$1,000) 2	51					673.00
52	DESULFURIZATION SYSTEMS (\$1,000)	52					
53	STACKS (\$1,000)	53					
54	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	54	33.00	92.29	40.00	1,184.00	202.00
55	REVENUES FROM SALE OF ASH (\$1,000)	55					127.90
56	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	56					.40
57	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	57					
58	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 2	58		5.00			
59	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	59					
60		60					.40
WATER QUALITY CONTROL DATA							
61	COOLING WATER: SOURCE (CODES R, L, B, C, H, M & O EXPL. IN FOOTNOTES)	61	W	R REARL	L BIG CREEK	R MISSOURI	R CHEAT
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	1.53	3.68	.31	264.00	420.00
63	AVERAGE RATE OF DISCHARGE (CFS)	63				264.00	419.50
64	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REVERTIBLE	64	1.53	3.68	.31	2.27	3.61
65	PEAK LOAD MONTH: SUMMER - WINTER	65			SEP DEC	SEP DEC	JUL JAN
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66				80.00 40.00	79.00 38.00
67	AT OUTFALL, SUMMER - WINTER	67				100.00 70.00	101.00 60.00
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	68					3,460.00
69		69					
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C 2	70					
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71	5.47	.29	.92		.60
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72		.01	37.42	.02	65.40
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73	407.35				
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74	91.80				5.90
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	1.35				.98
76	OTHER YES/NO, COOLING WATER - BOILER MAKEUP	76	YES YES	8.00 YES	1.00 YES		YES
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 2	77	ST	PS	ST	ST	ST
78	RECEIVING WATER BODY	78	C ST. CATHERINE				R CHEAT
79	POND DISCHARGE: PM, BOILER BLOWDOWN - ASH SETTLING	79					
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80					
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	81					
82	- ASH SETTLING	82				7,250.00	
COOLING FACILITY DATA							
83	NO. OF UNITS AND CAPACITY (MMT USING ONCE THROUGH COOLING (FRESH)	83				3	518.50
84	ONCE THROUGH COOLING (ISALINE)	84				3	304.00
85	COOLING PONDS	85					
86	COOLING TOWERS	86	1	66.00	2	304.70	
87	COMBINATION 2	87			2	78.50	
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1951	1949	1959	1954	1958
89	DESIGN: RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 2	89	14.00	15.60	18.00	18.00	17.50
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	109.20		508.90		19.20
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91				80.00	526.00
CAPITAL COSTS OF COOLING FACILITIES							
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92					965.00
93	COOLING PONDS (\$1,000)	93			2,432.00		
94	COOLING TOWERS (\$1,000)	94	250.00	482.60	452.00		710.00
ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	25.00	242.70			35.10
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	34.41	1.60			
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	1.00	3.20			37.70
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	.73	5.30			14.60

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1 NAME OF UTILITY	2 MONONGAHELA ALLEGHENY POWER CO.	3 MONONGAHELA ALLEGHENY POWER CO.	4 MONONGAHELA ALLEGHENY POWER CO.	5 MONROE, CITY OF	6 MONTANA-OAKOTA UTIL. CO.	7	8	9	10	11
2 NAME OF PLANT	3 FORT MARY IN	4 RIVESVILLE	5 WILLOW ISLAND	6 MONROE	7 HESKETT	8	9	10	11	12
3 UTILITY-PLANT CODE	4 311000-0200	5 311000-0300	6 311000-0400	7 312000-0100	8 313000-0500	9	10	11	12	13
4 STATE	5 WEST VIRGINIA	6 WEST VIRGINIA	7 WEST VIRGINIA	8 LOUISIANA	9 NORTH DAKOTA	10	11	12	13	14
5 COUNTY	6 MONONGALIA	7 MARION	8 PLEASANTS	9 OUACHITA	10 MORTON	11	12	13	14	15
6 AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	7 235 05	8 235 05	9 179 05	10 019 08	11 172 10	12	13	14	15	16
7 PLANT CAPACITY (MWH) 3/	8 1,152.00	9 174.75	10 215.00	11 165.99	12 100.00	13	14	15	16	17
8 ANNUAL GENERATION (MWH) 3/	9 1,502,900	10 814,800	11 1,476,200	12 557,400	13 583,200	14	15	16	17	18
9 PLANT HEAT RATE (BTU/KWH) 3/	10 9,096	11 14,378	12 10,687	13 13,800	14 12,957	15	16	17	18	19

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12 COAL: CONSUMPTION (1,000 TONS)	13 2,578.70	14 455.00	15 724.90	16 541.30	17	18	19	20	21	22
13 AVERAGE HEAT CONTENT (BTU/LB)	14 12,316	15 12,440	16 10,875	17 6,970	18	19	20	21	22	23
14 AVERAGE SULFUR CONTENT (%)	15 3.07	16 3.27	17 4.41	18 .74	19	20	21	22	23	24
15 AVERAGE ASH CONTENT (%)	16 13.91	17 12.80	18 19.43	19 6.78	20	21	22	23	24	25
16 AVERAGE MOISTURE CONTENT (%)	17 4.64	18 4.12	19 5.49	20 36.12	21	22	23	24	25	26
17 OIL: CONSUMPTION (1,000 BARRELS)	18 25.00	19 .91	20 1.63	21	22	23	24	25	26	27
18 AVERAGE HEAT CONTENT (BTU/GAL)	19 139,000	20 139,000	21 139,000	22	23	24	25	26	27	28
19 AVERAGE SULFUR CONTENT (%)	20 .25	21 .25	22 .25	23	24	25	26	27	28	29
20 GAS: CONSUMPTION (1,000 MCF)	21 339.44	22	23	24 5,017.03	25	26	27	28	29	30
21 AVERAGE HEAT CONTENT (BTU/CU.FT.)	22 522	23	24	25 1,000	26	27	28	29	30	31

PLANT EQUIPMENT DATA

22 BOILERS: - TOTAL NO.	23 2	24 4	25 2	26 7	27 2	28	29	30	31	32
23 - NO. OF WET BOTTOM	24 2	25 2	26 1	27 1	28 2	29	30	31	32	33
24 - NO. WITH FLY ASH REINJECTION	25 4	26 4	27 1	28 1	29 2	30	31	32	33	34
25 - NO. WITH MECHANICAL PRECIPITATORS	26 2	27 1	28 1	29 1	30 2	31	32	33	34	35
26 - NO. WITH ELECTROSTATIC PRECIPITATORS	27	28	29	30	31	32	33	34	35	36
27 - NO. WITH COMBINATION PRECIPITATORS 4/	28	29	30	31	32	33	34	35	36	37
28 - NO. WITH DESULFURIZATION SYSTEMS	29	30	31	32	33	34	35	36	37	38
29 - EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	30 20.00	31 25.00	32 45.00	33 20.00	34 4.50	35 8.00	36 25.00	37 30.00	38	39
30 MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	31	32	33 85.00	34	35	36	37 88.00	38 90.00	39	40
31 TESTED, LOW - HIGH	32	33 56.00	34 70.00	35 59.00	36	37	38	39	40	41
32 ESTIMATED, LOW - HIGH	33	34 56.00	35 70.00	36 59.00	37	38	39 88.00	40 90.00	41	42
33 ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	34	35 99.00	36 70.00	37 90.00	38	39	40	41	42	43
34 TESTED, LOW - HIGH	35	36 99.00	37 70.00	38 90.00	39	40	41	42	43	44
35 EST., LOW - HIGH	36	37 99.00	38 70.00	39 90.00	40	41	42	43	44	45
36 DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	37	38	39	40	41	42	43	44	45	46
37 TESTED, LOW - HIGH	38	39	40	41	42	43	44	45	46	47
38 ESTIMATED, LOW - HIGH	39	40	41	42	43	44	45	46	47	48

PLANT OPERATING DATA AND COST OF EQUIPMENT

39 EST. TOTAL ANNUAL PLANT EMISSIONS: 2/	40	41	42	43	44	45	46	47	48	49
40 PARTICULATE MATTER (1,000 TONS)	41 2.62	42 17.92	43 15.40	44	45	46	47	48	49	50
41 SULFUR DIOXIDE (1,000 TONS)	42 155.19	43 29.16	44 62.66	45	46	47	48	49	50	51
42 NITROGEN OXIDES (1,000 TONS)	43 23.26	44 5.09	45 16.57	46 .98	47	48	49	50	51	52
43 STACKS: - TOTAL NO.	44 2	45 6	46 2	47 7	48	49	50	51	52	53
44 - HEIGHT (FEET), LOWEST - HIGHEST 6/	45 550.00	46 152.00	47 190.00	48 138.00	49 216.00	50 65.00	51 80.00	52 125.00	53	54
45 COMBUSTION CYCLE ADDITIVES (1,000 TONS) 7/	46	47	48	49	50	51	52	53	54	55
46 TOTAL ASH: COLLECTED (1,000 TONS) 8/	47 392.00	48 51.50	49 103.00	50	51	52	53	54	55	56
47 SOLD (1,000 TONS) 11/	48 .80	49	50	51	52	53	54	55	56	57
48 TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	49	50	51	52	53	54	55	56	57	58
49 EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	50	51	52	53	54	55	56	57	58	59
50 ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	51	52	53	54	55	56	57	58	59	60
51 INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	52 4,121.00	53 465.00	54 120.00	55 407.00	56	57	58 95.60	59	60	61
52 ELECTROSTATIC PRECIPITATORS (\$1,000)	53	54	55	56	57	58	59	60	61	62
53 COMBINATION PRECIPITATORS (\$1,000) 4/	54	55	56	57	58	59	60	61	62	63
54 DESULFURIZATION SYSTEMS (\$1,000)	55	56	57	58	59	60	61	62	63	64
55 STACKS (\$1,000)	56 1,531.00	57 26.00	58 156.00	59 92.90	60	61	62	63	64	65
56 ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57 173.10	58 82.30	59 101.90	60	61	62	63	64	65	66
57 REVENUES FROM SALE OF ASH (\$1,000)	58 .42	59	60	61	62	63	64	65	66	67
58 SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	59	60	61	62	63	64	65	66	67	68
59 REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	60	61	62	63	64	65	66	67	68	69
60 TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	61 173.10	62 82.30	63 101.90	64	65	66	67 37.00	68	69	70
61 TOTAL BYPRODUCT SALES REVENUES (\$1,000)	62 .42	63	64	65	66	67	68	69	70	71

WATER QUALITY CONTROL DATA

62 COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	63 R MONONGAHELA	64 R MONONGAHELA	65 R OHIO	66 R OUACHITA	67 R MISSOURI	68	69	70	71	72
63 AVERAGE RATE OF WITHDRAWAL (CFS)	64 40.00	65 375.00	66 225.00	67 163.00	68 60.60	69	70	71	72	73
64 AVERAGE RATE OF DISCHARGE (CFS)	65 22.00	66 374.90	67 224.97	68 163.00	69 60.50	70	71	72	73	74
65 AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	66 18.00	67 3.23	68 1.94	69 1.40	70 .52	71	72	73	74	75
66 PEAK LOAD MONTH: SUMMER - WINTER 15/	67 JUL JAN	68 JUL JAN	69 JUL JAN	70 AUG JAN	71 AUG JAN	72	73	74	75	76
67 MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	68 85.00	69 41.00	70 83.00	71 87.00	72 48.00	73	74	75	76	77
68 AT OUTFALL, SUMMER - WINTER	69 101.00	70 57.00	71 99.00	72 53.00	73 91.00	74 51.00	75 85.00	76 72.00	77	78
69 AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	70 3,350.00	71 2,380.00	72 45,000.00	73 168,000	74 28,910.00	75	76	77	78	79
70 FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OR	71 6,429.00	72 6,010.00	73 70,000.00	74 121.00	75 28,300.00	76	77	78	79	80
71 CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	72	73	74	75	76	77	78	79	80	81
72 CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	73 172.93	74 96.75	75 117.50	76 .16	77 .18	78	79	80	81	82
73 LIME (TONS), COOLING WATER - BOILER MAKEUP	74	75	76 50.00	77 12.00	78	79	80	81	82	83
74 ALUM (TONS), COOLING WATER - BOILER MAKEUP	75	76	77 3.80	78	79	80	81	82	83	84
75 CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	76 19.00	77 7.08	78 .24	79 4.00	80 .90	81 4.00	82	83	84	85
76 OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	77 YES	78 YES	79 YES	80 YES	81 YES	82	83	84	85	86
77 SEWAGE DISPOSAL: METHOD PS, ST, SM, OT 16/	78 ST/OT	79 PS	80 ST	81 PS	82 OT	83	84	85	86	87
78 RECEIVING WATER BODY	79 R MONONGAHELA	80	81 R OHIO	82	83	84	85	86	87	88
79 POND DISCHARGE 17/	80	81	82	83	84	85	86	87	88	89
80 SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	81 6.30	82 6.50	83	84	85	86	87	88	89	90
81 VOLUME (1,000 CU.FT./YR), BOILER BLOWDOWN - ASH SETTLING	82 93.00	83 69.00	84	85	86	87	88	89	90	91
82 BOILER BLOWDOWN - ASH SETTLING	83 77,300.00	84 115,949.99	85	86	87	88	89	90	91	92

COOLING FACILITY DATA

83 NO. OF UNITS AND CAPACITY (MWH) USING: 18/	84	85	86	87	88	89	90	91	92	93
84 ONCE THROUGH COOLING (FRESH)	85 6	86 214.00	87 2	88 245.00	89 7	90 165.90	91 2	92 100.00	93	94
85 ONCE THROUGH COOLING (SALINE)	86	87	88	89	90	91	92	93	94	95
86 COOLING POND(S)	87	88	89	90	91	92	93	94	95	96
87 COOLING TOWER(S)	88 2	89 1,102.00	90	91	92	93	94	95	96	97
88 COORDINATIONS 19/	89	90	91	92	93	94	95	96	97	98
89 COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	90 1967	91 1968	92 1919	93 1951	94 1949	95 1960	96 1945	97 1968	98 1954	99 1963
90 DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 20/	91 24.00	92 23.00	93 10.00	94 21.00	95 4.00	96	97	98	99	100
91 TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	92 1,114.00	93 966.70	94 10.00	95 270.70	96 329.90	97	98	99	100	101
92 TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	93 1,120.00	94 967.00	95	96 297.00	97 329.90	98	99	100	101	102

CAPITAL COSTS OF COOLING FACILITIES

93 ONCE THROUGH COOLING SYSTEMS (\$1,000)	94	95	96	97	98	99	100	101	102	103
94 COOLING PONDS (\$1,000)	95	96	97	98	99	100	101	102	103	104
95 COOLING TOWERS (\$1,000)	96 9,724.00	97 475.00	98 1,205.00	99	100	101	102	103	104	105

ANNUAL COOLING WATER EXPENSES

96 OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97 368.00	98 51.80	99 41.40	100	101	102	103	104	105	106
97 COST OF CHEMICAL ADDITIVES (\$1,000)	98 13.40	99 1.70	100 .20	101 2.10	102	103	104	105	106	107

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

98 OPERATION AND MAINTENANCE EXPENSES (\$1,000)	99 175.10	100 182.90	101 33.60	102 8.90	103 20.00	104	105	106	107	108
99 COST OF CHEMICAL ADDITIVES (\$1,000)	100 56.90	101 13.20	102 4.10	103 7.20	104 2.40	105	106	107	108	109

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	MONTANA-OKOTA UTIL. CO.	1	MONTAUP ELECTRIC CO.	1	MORGAN CITY, LA.	1	NEW BEDFORD GAS & EDISON LIGHT CO.	1	N. W. ELECTRIC POWER COOP. INC.	1	
2	NAME OF PLANT	2	LEWIS & CLARK	2	SOMERSET	2	MUNICIPAL	2	CANNON	2	MISSOURI CITY	2	
3	UTILITY-PLANT CODE	3	313000-0900	3	314000-0100	3	324250-0100	3	327000-0100	3	327500-0100	3	
4	STATE	4	MONTANA	4	MASSACHUSETTS	4	LOUISIANA	4	MASSACHUSETTS	4	MISSOURI	4	
5	COUNTY	5	RICHLAND	5	BRISTOL	5	ST. MARY	5	BRISTOL	5	CLAY	5	
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	143	10	120	01	106	08	120	01	094	10	
7	PLANT CAPACITY (MW)	7	50.00	325.00	32.50	100.50	527.300	206,700	13,369				
8	ANNUAL GENERATION (MWH) 3/	8	340,400	1,610,800	12,067	13,806	14,088						
9	PLANT HEAT RATE (BTU/KWH) 3/	9	12,620										
AIR QUALITY CONTROL DATA													
FUEL CONSUMPTION DATA (ANNUAL)													
12	COAL: CONSUMPTION (1,000 TONS)	12	325.30	101.10								118.33	12
13	AVERAGE HEAT CONTENT (BTU/LB)	13	6,546	12,478								10,703	13
14	AVERAGE SULFUR CONTENT (%)	14	.63	.89								3.77	14
15	AVERAGE ASH CONTENT (%)	15	7.45	8.81								12.18	15
16	AVERAGE MOISTURE CONTENT (%)	16	38.20	8.57								13.63	16
17	OIL: CONSUMPTION (1,000 BARRELS)	17		2,679.30					955.40			36.39	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18		148,094	1.72				147,804	150,852		1.70	18
19	AVERAGE SULFUR CONTENT (%)	19							1.54				19
20	GAS: CONSUMPTION (1,000 MCF)	20	39.80			1,670.00			1,858.40				20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,060			1,000			1,000				21
PLANT EQUIPMENT DATA													
22	BOILERS: - TOTAL NO.	22	1	8	3	12	2	22					
23	- NO. OF WET BOTTOM	23		1				23					
24	- NO. WITH FLY ASH REINJECTION	24						24					
25	- NO. WITH MECHANICAL PRECIPITATORS	25	1	2				25					
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26						26					
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27						27					
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28					
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	25.00	15.00	40.00	2.50	3.00	14.00	35.00	20.00			
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30	85.70	87.50	88.50				95.00	80.00			
31	TESTED, LOW - HIGH	31							95.00	52.00			
32	ESTIMATED, LOW - HIGH	32	85.70		85.00				95.00				
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/	33							94.00				
34	DESIGN, LOW - HIGH	34							94.00				
35	TESTED, LOW - HIGH	35							58.00	69.00			
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36											
37	TESTED, LOW - HIGH	37											
38	ESTIMATED, LOW - HIGH	38											
PLANT OPERATING DATA AND COST OF EQUIPMENT													
39	EST. TOTAL ANNUAL PLANT EMISSIONS 7/	39											
40	PARTICULATE MATTER (1,000 TONS)	40	2.95	1.13					.06	4.50			
41	SULFUR DIOXIDE (1,000 TONS)	41	4.02	17.23					4.94	8.95			
42	NITROGEN OXIDES (1,000 TONS)	42	2.94	6.67			.33		2.47	1.86			
43	STACKS: - TOTAL NO.	43	1	6	3	6			2	2			
44	- HEIGHT (FEET), LOWEST - HIGHEST 8/	44	200.00	282.00	332.00	60.00	175.00	250.00		130.00			
45	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	45			.41			.20					
46	TOTAL ASH: COLLECTED (1,000 TONS) 10/	46	21.20	3.25				.10		7.50			
47	SOLD (1,000 TONS) 11/	47	2.90	.03									
48	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	48											
49	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	49											
50	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	50											
51	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	51	49.00	143.80					7.60	20.00			
52	ELECTROSTATIC PRECIPITATORS (\$1,000)	52							166.40				
53	COMBINATION PRECIPITATORS (\$1,000) 4/	53											
54	DESULFURIZATION SYSTEMS (\$1,000)	54	43.20	174.30					122.00	20.00			
55	STACKS (\$1,000)	55	20.00	33.70					11.00	9.00			
56	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	56	2.90	.90									
57	REVENUES FROM SALE OF ASH (\$1,000)	57											
58	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	58											
59	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	59											
60	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	60	25.00	177.20					244.00	9.00			
61	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	61	2.90	.90									
WATER QUALITY CONTROL DATA													
61	COOLING WATER: SOURCE (CODES R, L, B, C, H, M & O EXPL. IN FOOTNOTES)	61	R YELLOWSTONE	R TAUNTON	M			R ACUSHNET	R MISSOURI				
62	AVERAGE RATE OF WITHDRAWAL (CF5)	62	40.00	553.00				152.00	152.00	29.20	29.20		
63	AVERAGE RATE OF DISCHARGE (CF5)	63	39.90	553.00									
64	AVERAGE RATE OF CONSUMPTION (CF5), CALCULATED - REPORTED 14/	64	.34	.10				1.31	.25				
65	PEAK LOAD MONTH: AUG - JAN	65	AUG	JAN	MAY	DEC	AUG	DEC	AUG	JAN			
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	80.00	33.00	63.00	44.00	82.00	50.00	84.00	28.00			
67	AT OUTFALL, SUMMER - WINTER	67	105.00	63.00	80.00	56.00	103.00	65.00	97.00	39.00			
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CF5): SUMMER - WINTER	68	8,270.00	130,000.00				150.00		86,000.00			
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, DIS/	69	9,330.00	130,000.00				159.00		22,000.00			
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70											
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71	.03	.90	.62					.30			
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	72	.08	1.83	1.33		5.88			.25			
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	73	9.28							13.00			
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74	1.18										
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75	.45										
76	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 15/	76	YES	YES	YES	PS	YES	YES	PS	YES			
77	RECEIVING WATER BODY	77	OT	ST	TAUNTON				ST				
78	POND DISCHARGE 16/	78											
79	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79			7.00				6.50	6.00			
80	VOLUME (1,000 CU.FT./YR), BOILER BLOWDOWN	80	24.00						2,000.00	250.00			
81	- ASH SETTLING	81								95.00			
82		82	2,300.00	3.75						314.00			
COOLING FACILITY DATA													
83	NO. OF UNITS AND CAPACITY (MW) USING 17/	83	1	50.00	6	34.00	3	32.50	6	117.50	2	40.00	
84	ONCE THROUGH COOLING (FRESH)	84											
85	ONCE THROUGH COOLING (SALINE)	85											
86	COOLING POND(S)	86											
87	COOLING TOWER(S)	87											
88	COMBINATIONS 18/	88											
89	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	89	1958	1925	1959	1963	1969	1917	1950	1953			
90	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 19/	90	25.00	14.25	19.15		20.00		15.00	12.00			
91	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CF5)	91	49.00	552.00			23.08		242.13	105.34			
92	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CF5)	92	49.00	517.00					444.60	52.21			
CAPITAL COSTS OF COOLING FACILITIES													
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	993.70	853.72					430.50	725.70			
93	COOLING PONDS (\$1,000)	93											
94	COOLING TOWERS (\$1,000)	94						86.00					
ANNUAL COOLING WATER EXPENSES													
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	20.00	107.30					14.00	4.00			
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96		3.70			3.17		3.00				
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES													
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	11.50	3.30					9.00	3.00			
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	1.50	1.70			2.76		.10	3.20			

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

NAME OF UTILITY	1	2	3	4	5	6	7	8	9	10	11	12
NAME OF PLANT	1	2	3	4	5	6	7	8	9	10	11	12
UTILITY-PLANT CODE	1	2	3	4	5	6	7	8	9	10	11	12
STATE	1	2	3	4	5	6	7	8	9	10	11	12
COUNTY	1	2	3	4	5	6	7	8	9	10	11	12
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	1	2	3	4	5	6	7	8	9	10	11	12
PLANT CAPACITY (MW)	1	2	3	4	5	6	7	8	9	10	11	12
ANNUAL GENERATION (MWH) 3/	1	2	3	4	5	6	7	8	9	10	11	12
PLANT HEAT RATE (BTU/KWH) 3/	1	2	3	4	5	6	7	8	9	10	11	12
AIR QUALITY CONTROL DATA												
FUEL CONSUMPTION DATA (ANNUAL)												
COAL: CONSUMPTION (1,000 TONS)	12	107.30	14.30					632.18				12
AVERAGE HEAT CONTENT (BTU/LB)	13	11,516	12,011					12,660				13
AVERAGE SULFUR CONTENT (%)	14	2.04	4.30					.55				14
AVERAGE ASH CONTENT (%)	15	9.63	12.09					6.88				15
AVERAGE MOISTURE CONTENT (%)	16	10.91	1.41					6.06				16
DIL: CONSUMPTION (1,000 BARRELS)	17						17.36	6.01		3.67		17
AVERAGE HEAT CONTENT (BTU/GAL)	18		142,218				152,976	137,381		152,200		18
AVERAGE SULFUR CONTENT (%)	19		4.27				1.00	.20		1.00		19
GAS: CONSUMPTION (1,000 MCF)	20	2,642.70	603.50				11,187.81			4,427.19		20
AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,001	994				1,087			1,087		21
PLANT EQUIPMENT DATA												
BOILERS: - TOTAL NO.	22	4	3				3			1		22
- NO. OF WET BOTTOM	23		1					2				23
- NO. WITH FLY ASH REINJECTION	24											24
- NO. WITH MECHANICAL PRECIPITATORS	25		2					2				25
- NO. WITH ELECTROSTATIC PRECIPITATORS	26											26
- NO. WITH COMBINATION PRECIPITATORS 4/	27											27
- NO. WITH DESULFURIZATION SYSTEMS	28											28
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	17.00	17.00	9.00	9.50			18.00		8.00		29
MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30		85.00					88.10				30
TESTED, LOW - HIGH	31							73.78				31
ESTIMATED, LOW - HIGH	32		85.00					80.00				32
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/	33											33
DESIGN, LOW - HIGH	34											34
TESTED, LOW - HIGH	35											35
EST., LOW - HIGH	36											36
DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	37											37
TESTED, LOW - HIGH	38											38
ESTIMATED, LOW - HIGH	38											38
PLANT OPERATING DATA AND COST OF EQUIPMENT												
EST. TOTAL ANNUAL PLANT EMISSIONS 7/	39	8.78	.22					5.62				39
PARTICULATE MATTER (1,000 TONS)	40	4.29	1.25				.06	6.78		.01		40
SULFUR DIOXIDE (1,000 TONS)	41	1.48	.26				2.22	9.45		.87		41
NITROGEN OXIDES (1,000 TONS)	42	2	2				3	2		1		42
STACKS: - TOTAL NO.	43	252.00	207.00	100.00	156.00			200.00		135.00		43
- HEIGHT (FEET), LOWEST - HIGHEST 8/	44											44
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	45	2.90	1.20					36.54				45
TOTAL ASH: COLLECTED (1,000 TONS) 10/	46							2.24				46
SOLD (1,000 TONS) 11/	47											47
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	48											48
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	49											49
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	50		109.00					93.00				50
INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	51											51
ELECTROSTATIC PRECIPITATORS (\$1,000)	52											52
COMBINATION PRECIPITATORS (\$1,000) 4/	53											53
DESULFURIZATION SYSTEMS (\$1,000)	54	86.00	40.00		77.00			245.00		26.00		54
STACKS (\$1,000)	55	12.50	5.00									55
ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	56							2.24				56
REVENUES FROM SALE OF ASH (\$1,000)	57											57
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	58											58
REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	59	12.50	5.00					356.86		2.24		59
TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	60											60
TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60											60
WATER QUALITY CONTROL DATA												
COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R MISSOURI	M				O SEWAGE EFFLNT.	RM MUOBY		O SEWAGE EFFLNT.		61
AVERAGE RATE OF WITHDRAWAL (CFS)	62	160.13						4.79		2.05		62
AVERAGE RATE OF DISCHARGE (CFS)	63	160.11						1.04		.32		63
AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	64	1.38	.02					3.13		1.73		64
PEAK LOAD MONTH: AUG	65											65
MAX. TEMP. DURING PEAK MONTH (DEG. F.): 15/	66	83.00	39.00									66
AT DIVERSION, SUMMER - WINTER	67	90.00	51.00									67
AT OUTFALL, SUMMER - WINTER	68		48,330.00									68
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): 16/	69		14,560.00									69
- SUMMER - WINTER	70											70
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OR 17/	71											71
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	72	.36	1.00		.25		30.00	.06		1.06		72
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	73	.01	6.50		.07			.03		.06		73
LIME (TONS), COOLING WATER - BOILER MAKEUP	74	58.60	25.00	1,950.00								74
ALUM (TONS), COOLING WATER - BOILER MAKEUP	75	19.80										75
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	76	10.00	1.00	194.00			58.74	150.00				76
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	77	YES	YES	YES	YES		YES	YES		YES		77
SEWAGE DISPOSAL: METHOD P5, ST, SW, OT 18/	78	SW MISSOURI	PS		ST		ST	ST		ST		78
RECEIVING WATER BODY	79											79
POND DISCHARGE 19/	80	70.00						10.70				80
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	81		185.00									81
VOLUME (1,000 CU.FT/YR), BOILER BLOWDOWN - ASH SETTLING	82							42,000.00				82
COOLING FACILITY DATA												
NO. OF UNITS AND CAPACITY (MW) USING 20/	83	3	112.50									83
ONCE THROUGH COOLING (FRESH)	84											84
ONCE THROUGH COOLING (SALINE)	85											85
COOLING POND(S)	86											86
COOLING TOWER(S)	87											87
COMBINATIONS 21/	88											88
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	89	1949	1951	1948	1956	1955	1961	1964	1967	1964		89
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	90		306.00		89.00		317.00	17.00				90
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	91		321.00					275.00		106.10		91
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	92											92
CAPITAL COSTS OF COOLING FACILITIES												
ONCE THROUGH COOLING SYSTEMS (\$1,000)	93	1,000.00										93
COOLING PONDS (\$1,000)	94											94
COOLING TOWERS (\$1,000)	95			202.00		491.00		637.00		180.00		95
ANNUAL COOLING WATER EXPENSES												
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	96	10.00	14.50			190.51		128.12		91.44		96
COST OF CHEMICAL ADDITIVES (\$1,000)	97	1.80	2.40			132.27		100.91		68.85		97
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES												
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	98	10.00	21.40			118.93		108.48		70.06		98
COST OF CHEMICAL ADDITIVES (\$1,000)	99	4.50	3.40			2.71		1.37		.95		99

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	NEW ENGLAND POWER CO.	NEW ENGLAND POWER CO.	NEW JERSEY POWER & LIGHT CO.	NEW ORLEANS PUBLIC SERVICE INC.	NEW ORLEANS PUBLIC SERVICE INC.	1								
2	NAME OF PLANT	2	BRAYTON	SALEM HARBOR	GILBERT	PATERSON	MARKET STREET	2								
3	UTILITY-PLANT CODE	3	334000-0200	334000-1200	335000-0100	337500-0100	337500-0200	3								
4	STATE	4	MASSACHUSETTS	MASSACHUSETTS	NEW JERSEY	LOUISIANA	LOUISIANA	4								
5	COUNTY	5	ESSEX	ESSEX	HUNTERDON	ORLEANS	ORLEANS	5								
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	120	01	119	01	151	02	106	08	106	08	106	08	96.25	9
7	PLANT CAPACITY (MW)	7	1,160.00		319.90		126.10		218.25							10
8	ANNUAL GENERATION (MWH) 3/	8	7,417,400		1,527,700		793,600		880,200						244,400	10
9	PLANT HEAT RATE (BTU/KWH) 3/	9	8,914		10,263		12,320		12,306						15,335	11
AIR QUALITY CONTROL DATA																
FUEL CONSUMPTION DATA (ANNUAL)																
12	COAL: CONSUMPTION (1,000 TONS)	12				14.00										12
13	AVERAGE HEAT CONTENT (BTU/LB)	13				13,250										13
14	AVERAGE SULFUR CONTENT (%)	14				2.20										14
15	AVERAGE ASH CONTENT (%)	15				15.00										15
16	AVERAGE MOISTURE CONTENT (%)	16				6.00										16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	10,590.40		2,528.10	1,045.00		166.97							9.85	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	147,798		148,167	145,099		148,358							146,753	18
19	AVERAGE SULFUR CONTENT (%)	19	1.78		1.61	1.00		1.08							1.37	19
20	GAS: CONSUMPTION (1,000 MCF)	20				2,960.00		9,218.88							3,573.46	20
21	AVERAGE HEAT CONTENT (BTU/CU.F.T.)	21				1,032		1,061							1,056	21
PLANT EQUIPMENT DATA																
22	BOILERS: - TOTAL NO.	22	3		3		3		4				3			22
23	- NO. OF WET BOTTOM	23	3		3											23
24	- NO. WITH FLY ASH REINJECTION	24														24
25	- NO. WITH MECHANICAL PRECIPITATORS	25														25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26	3		3		2									26
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27				1										27
28	- NO. WITH DESULFURIZATION SYSTEMS	28														28
29	- EXCESS AIR USED (%) - LOWEST BOILER - HIGHEST BOILER 5/	29	4.00	13.00	18.00	25.00	4.10	10.00	5.00	12.00	10.00	12.00				29
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30														30
31	TESTED, LOW - HIGH	31														31
32	ESTIMATED, LOW - HIGH	32														32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/:	33	98.40	99.00		97.00	90.00	99.00								33
34	DESIGN, LOW - HIGH	34	85.10	90.00		96.30										34
35	EST., LOW - HIGH	35	84.50	90.00		80.00		90.00								35
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36														36
37	TESTED, LOW - HIGH	37														37
38	ESTIMATED, LOW - HIGH	38														38
PLANT OPERATING DATA AND COST OF EQUIPMENT																
39	EST. TOTAL ANNUAL PLANT EMISSIONS 7/:	39		.23		.08		.21		.03						39
40	PARTICULATE MATTER (1,000 TONS)	40		63.24		13.66		4.11		.61					.05	40
41	SULFUR DIOXIDE (1,000 TONS)	41		23.35		5.57		3.01		2.17					.72	41
42	NITROGEN OXIDES (1,000 TONS)	42		3		3		3		2					2	42
43	STACKS: - TOTAL NO.	43		352.00		250.00		176.00		205.00		151.00			315.00	43
44	- HEIGHT (FEET), LOWEST - HIGHEST 8/	44		1.00		.40										44
45	COMBUSTION CYCLE ADJUSTMENTS (1,000 TONS) 9/	45		12.90		.70		1.50								45
46	TOTAL ASH: COLLECTED (1,000 TONS) 10/	46														46
47	SOLD (1,000 TONS) 11/	47														47
48	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	48														48
49	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	49														49
50	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	50														50
51	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	51		2,182.00		837.00		289.00								51
52	ELECTROSTATIC PRECIPITATORS (\$1,000)	52				407.00										52
53	COMBINATION PRECIPITATORS (\$1,000) 4/	53														53
54	DESULFURIZATION SYSTEMS (\$1,000)	54														54
55	STACKS (\$1,000)	55		896.00		421.00		61.50		127.00		84.00				55
56	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	56		239.30		.70		1.00								56
57	REVENUES FROM SALE OF ASH (\$1,000)	57		38.00												57
58	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	58														58
59	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	59														59
60	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 14/	60		246.30		.70		1.00								60
61	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	61		38.00												61
WATER QUALITY CONTROL DATA																
62	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & D EXPL. IN FOOTNOTES)	62	R TAUNTON	H SALEM	R DELAWARE	O INNER HARBOR CML	R MISSISSIPPI	62								
63	AVERAGE RATE OF WITHDRAWAL (ICFS)	63	1,187.70	411.00	276.00	213.00	97.00	63								
64	AVERAGE RATE OF DISCHARGE (ICFS)	64	1,187.70	411.00	276.00	213.00	97.00	64								
65	AVERAGE RATE OF CONSUMPTION (ICFS), CALCULATED - REPORTED 15/	65	10.21	3.53	2.37	1.83	.83	65								
66	PEAK LOAD MONTH:	66	SEP	JAN	JUN	JAN	JUL	JAN	JUL	EE8						66
67	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	67	77.00	39.00	75.30	36.60	81.00	35.00	88.00	57.00	85.00	43.00				67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (ICFS): SUMMER - WINTER	68	92.00	54.00	85.30	58.30	92.50	57.90	114.00	101.00	112.00	71.00				68
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C18/	69														69
70	CHEMICAL ADJUSTMENTS: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70														70
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71		1.09		7.99		.74				2.98			.83	71
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	72		199.57		5.84						1.16			.27	72
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	73														73
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74														74
75	OTHER IYES (TONS), COOLING WATER - BOILER MAKEUP	75	32.63	29.93	1.80	.45	91.00									75
76	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT18/	76	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	76
77	RECEIVING WATER BODY	77	ST	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	77
78	POND DISCHARGE 19/	78														78
79	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79	4.50	4.50	9.50	6.60										79
80	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	80	2,000.00	10.00	12.50											80
81	BOILER BLOWDOWN - ASH SETTLING	81	56.18		64.35											81
82	BOILER BLOWDOWN - ASH SETTLING	82	15,646.00	30,835.20												82
COOLING FACILITY DATA																
83	NO. OF UNITS AND CAPACITY (MW) USING 20/	83	3	3	3	4	3	83								
84	ONCE THROUGH COOLING (FRESH)	84	1,162.00	319.94	126.10	218.25	96.25	84								
85	ONCE THROUGH COOLING (SALINE)	85						85								
86	COOLING PONDS	86						86								
87	COOLING TOWERS 21/	87						87								
88	COMBINATIONS 22/	88						88								
89	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	89	1963	1969	1951	1958	1930	1949	1947	1954	1938	1948				89
90	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 23/	90	12.00	17.33	8.70	14.00	13.20	17.30	16.90	17.80	10.92	11.98				90
91	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (ICFS)	91	1,403.60	586.39	221.00	334.30	334.30	247.30								91
92	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (ICFS)	92	1,398.10	586.39	221.00	334.30	334.30	247.30								92
CAPITAL COSTS OF COOLING FACILITIES																
93	ONCE THROUGH COOLING SYSTEMS (\$1,000)	93	3,963.00	679.30	290.50	1,848.60	930.90	93								
94	COOLING PONDS (\$1,000)	94						94								
95	COOLING TOWERS (\$1,000)	95						95								
ANNUAL COOLING WATER EXPENSES																
96	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	96	3.40	26.90	17.60	69.00	21.00	96								
97	COST OF CHEMICAL ADJUSTMENTS (\$1,000)	97	7.80	7.40	4.50	11.00		97								
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES																
98	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	98	19.60	16.10	19.80	31.00	19.00	98								
99	COST OF CHEMICAL ADJUSTMENTS (\$1,000)	99	20.80	4.30	1.60	28.00	2.00	99								

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

NAME OF UTILITY	1	NEW ORLEANS PUBLIC SERVICE	NEW YORK STATE ELECTRIC & GAS CORP.	NEW YORK STATE ELECTRIC & GAS CORP.	NEW YORK STATE ELECTRIC & GAS CORP.	NEW YORK STATE ELECTRIC & GAS CORP.
NAME OF PLANT	2	INC.	GOUEY	GREENIDGE	HICKLING	JENNISON
UTILITY-PLANT CODE	3	337500-0300	339000-0600	339000-0700	339000-0900	339000-1100
STATE	4	LOUISIANA	NEW YORK	NEW YORK	NEW YORK	NEW YORK
COUNTY	5	ORLEANS	BROOME	YATES	STEUBEN	CHENANGO
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	106	163	160	164	163
PLANT CAPACITY (MW)	7	959.25	145.75	160.00	70.00	60.00
ANNUAL GENERATION (MWH) 3/	8	5,133,900	745,800	963,500	588,300	326,600
PLANT HEAT RATE (BTU/KWH) 3/	9	10,296	11,086	11,245	14,794	15,104
AIR QUALITY CONTROL DATA						
FUEL CONSUMPTION DATA (ANNUAL)						
COAL: CONSUMPTION (1,000 TONS)	12		358.38	459.41	415.21	230.64
AVERAGE HEAT CONTENT (BTU/LB)	13		11,604	11,474	10,498	10,806
AVERAGE SULFUR CONTENT (%)	14		1.72	1.80	1.39	1.34
AVERAGE ASH CONTENT (%)	15		19.14	18.40	25.27	19.32
AVERAGE MOISTURE CONTENT (%)	16		4.76	6.01	5.44	8.59
OIL: CONSUMPTION (1,000 BARRELS)	17	118.98	8.37	55.01		
AVERAGE HEAT CONTENT (BTU/GAL)	18	149,799	138,823	137,500		
AVERAGE SULFUR CONTENT (%)	19	1.39	.14	.14		
GAS: CONSUMPTION (1,000 MCF)	20	49,224.42				
AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,069				
PLANT EQUIPMENT DATA						
BOILERS: - TOTAL NO.	22	3	6	6	4	4
- NO. OF WET BOTTOM	23		6	6	4	4
- NO. WITH FLY ASH REINJECTION	24			5	4	4
- NO. WITH MECHANICAL PRECIPITATORS	25			1		
- NO. WITH ELECTROSTATIC PRECIPITATORS	26		6	2		
- NO. WITH COMBINATION PRECIPITATORS 4/	27					
- NO. WITH DESULFURIZATION SYSTEMS	28					
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	12.00	30.00	21.00	25.00	28.00
MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30			76.40	80.00	93.50
TESTED, LOW - HIGH	31					
ESTIMATED, LOW - HIGH	32				75.00	86.00
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/ DESIGN, LOW - HIGH	33		92.00	96.00	98.50	99.00
TESTED, LOW - HIGH	34		75.70	85.00	99.00	96.00
ESTIMATED, LOW - HIGH	35					
DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36					
TESTED, LOW - HIGH	37					
ESTIMATED, LOW - HIGH	38					
PLANT OPERATING DATA AND COST OF EQUIPMENT						
EST. TOTAL ANNUAL PLANT EMISSIONS 7/ PARTICULATE MATTER (1,000 TONS)	39	.02	6.49	5.35	21.65	9.19
SULFUR DIOXIDE (1,000 TONS)	40	.55	12.09	16.23	11.31	6.06
NITROGEN OXIDES (1,000 TONS)	41	9.86	5.39	7.01	3.11	1.73
STACKS: - TOTAL NO.	42					
- HEIGHT (FEET), LOWEST - HIGHEST 8/	43	164.00	186.00	282.00	287.00	227.00
COMBUSTION CYCLE ADJUSTIVES (1,000 TONS) 9/	44					
TOTAL ASH: COLLECTED (1,000 TONS) 10/	45		65.20	82.10	128.80	54.50
SOLD (1,000 TONS) 11/	46			9.50		15.80
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47					
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	48					
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49					
INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50			98.99	108.30	106.90
ELECTROSTATIC PRECIPITATORS (\$1,000)	51		330.54	830.00		
COMBINATION PRECIPITATORS (\$1,000) 4/	52			197.00		
DESULFURIZATION SYSTEMS (\$1,000)	53					
STACKS (\$1,000)	54	189.00	80.29	273.61	55.30	67.88
ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55		106.40	187.30	120.10	82.30
REVENUES FROM SALE OF ASH (\$1,000)	56			3.20		
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57					
REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58					
TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	59		106.40	466.30	136.60	103.70
TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60			3.20		6.70
WATER QUALITY CONTROL DATA						
COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	O MISS. R OUTLET	R SUSQUEHANNA	L SENECA	R CHEMUNG	R SUSQUEHANNA
AVERAGE RATE OF WITHDRAWAL (CFS)	62	931.00	141.37	276.80	110.15	97.65
AVERAGE RATE OF DISCHARGE (CFS)	63	931.00	141.29	278.72	110.13	97.63
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	64	8.01	1.22	2.38	.95	.84
PEAK LOAD MONTH: 15/	65	AUG	JAN	JUL	JAN	JAN
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	91.00	60.00	75.00	34.00	72.00
AT OUTFALL, SUMMER - WINTER	67	111.00	97.00	89.00	58.00	76.00
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	68		1,130.00	370.00	337.00	197.00
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OIS/	69		5,730.00	474.00	1,183.00	966.00
CHEMICAL ADJUSTIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70					
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71	.04	.18	1.95	.05	.10
LIME (TONS), COOLING WATER - BOILER MAKEUP	72	1.03	.02	.85		.06
ALUM (TONS), COOLING WATER - BOILER MAKEUP	73		5.60	1.20		1.27
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74					
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75	113.00	1.20	10.00	YES	3.60
SEWAGE DISPOSAL: METHOD PS, ST, SW, OTIS/	76	ST	ST	ST	ST	ST/OT
RECEIVING WATER BODY	77	O MISS. R OUTLET	L SENECA	6.20	10.90	7.80
POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	78		10.40			
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79		170.00			
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	80		2,332.00		25.42	
	81			61,500.00		
	82					
COOLING FACILITY DATA						
NO. OF UNITS AND CAPACITY (TWH) USING 16/ ONCE THROUGH COOLING (FRESH)	83	3	3	4	2	2
ONCE THROUGH COOLING (SALINE)	84	959.25	125.00	180.00	70.00	60.00
COOLING PONDS (S)	85					
COOLING TOWERS (S)	86					
COMBINATIONS 17/	87					
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1957	1967	1927	1951	1938
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 18/	89	15.10	17.20	26.00	34.00	22.00
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	1,158.10	226.50	300.00	300.00	116.00
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	1,158.10	232.50	301.00	118.50	96.80
CAPITAL COSTS OF COOLING FACILITIES						
ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	3,476.70	778.00	1,647.00	392.00	291.00
COOLING PONDS (\$1,000)	93					
COOLING TOWERS (\$1,000)	94					
ANNUAL COOLING WATER EXPENSES						
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	83.00	15.70	10.20	34.70	14.80
COST OF CHEMICAL ADJUSTIVES (\$1,000)	96	19.00	1.50	1.25	.80	.72
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	41.00	19.30	26.60	7.70	11.00
COST OF CHEMICAL ADJUSTIVES (\$1,000)	98	46.00	3.30	5.20	.90	1.10

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	NEW YORK STATE	1	NIAGARA-MOHAWK	1	NIAGARA-MOHAWK	1	NIAGARA-MOHAWK	1	NIAGARA-MOHAWK					
2		2	ELECTRIC & GAS	2	POWER CORP.	2	POWER CORP.	2	POWER CORP.	2	POWER CORP.					
3		3	CORP.	3		3		3		3						
4	NAME OF PLANT	4	MILLIKEN	4	OSWEGO	4	ALBANY	4	HUNTLEY	4	DUNKIRK					
5	UTILITY-PLANT CODE	5	339000-1400	5	341000-3800	5	341000-5900	5	341000-7900	5	341000-8000					
6	STATE	6	NEW YORK	6	NEW YORK	6	NEW YORK	6	NEW YORK	6	NEW YORK					
7	COUNTY	7	TOMPKINS	7	OSWEGO	7	ALBANY	7	ERIE	7	CHAUTAUQUA					
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	8	164 04	8	158 04	8	161 02	8	162 04	8	164 04					
9	PLANT CAPACITY (MW)	9	270.00	9	376.00	9	400.00	9	828.00	9	628.00					
10	ANNUAL GENERATION (MWH) 3/	10	1,961,600	10	1,796,300	10	2,504,600	10	3,827,600	10	2,955,700					
11	PLANT HEAT RATE (BTU/KWH) 3/	11	9,416	11	11,100	11	9,960	11	9,995	11	9,663					
AIR QUALITY CONTROL DATA																
FUEL CONSUMPTION DATA (ANNUAL)																
12	COAL: CONSUMPTION (1,000 TONS)	12	807.89	12	750.00	12		12	1,524.00	12	1,144.00					
13	AVERAGE HEAT CONTENT (BTU/LB)	13	11,418	13	13,266	13		13	12,588	13	12,734					
14	AVERAGE SULFUR CONTENT (%)	14	2.00	14	2.72	14		14	2.20	14	2.54					
15	AVERAGE ASH CONTENT (%)	15	17.66	15	7.99	15		15	10.10	15	11.21					
16	AVERAGE MOISTURE CONTENT (%)	16	6.54	16	4.79	16		16	6.26	16	4.82					
17	OIL: CONSUMPTION (1,000 BARRELS)	17		17		17	3,981.00	17		17						
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	137,565	18		18	149,113	18		18						
19	AVERAGE SULFUR CONTENT (%)	19	.14	19		19	2.40	19		19						
20	GAS: CONSUMPTION (1,000 MCF)	20		20		20		20		20						
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21		21		21		21		21						
PLANT EQUIPMENT DATA																
22	BOILERS: - TOTAL NO.	22	2	2	4	4	6	4	22	4						
23	- NO. OF WET BOTTOM	23	2	2	4	4	4	4	23	4						
24	- NO. WITH FLY ASH REINJECTION	24							24							
25	- NO. WITH MECHANICAL PRECIPITATORS	25			4	4			25	2						
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26	2						26							
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27							27							
28	- NO. WITH DESULFURIZATION SYSTEMS	28					6		28	2						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	24.00	29	12.00	29	22.00	29	14.00	29	15.00					
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30			89.00	80.00	89.00		30	18.00						
31	TESTED, LOW - HIGH	31			89.00		33.00		31	81.60						
32	ESTIMATED, LOW - HIGH	32			86.00	89.00	33.00		32	81.60						
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/:	33			98.00				33	95.50						
34	DESIGN, LOW - HIGH	34	84.00	34	86.00			90.60	34	95.10						
35	TESTED, LOW - HIGH	35		86.00				96.50	35	96.30						
36	EST., LOW - HIGH	36		85.00				98.20	36	93.50						
37	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	37						99.00	37	95.50						
38	TESTED, LOW - HIGH	38							38							
39	ESTIMATED, LOW - HIGH	39							39							
PLANT OPERATING DATA AND COST OF EQUIPMENT																
40	EST. TOTAL ANNUAL PLANT EMISSIONS: 7/ PARTICULATE MATTER (1,000 TONS)	40	13.91	40	4.91	40	.45	40	1.92	40	9.93					
41	SULFUR DIOXIDE (1,000 TONS)	41	31.67	41	40.07	41	32.07	41	66.39	41	55.88					
42	NITROGEN OXIDES (1,000 TONS)	42	12.13	42	11.28	42	8.78	42	18.10	42	10.10					
43	STACKS: - TOTAL NO.	43	2	4	4	2	3	4	3	4						
44	- HEIGHT (FEET), LOWEST - HIGHEST 8/	44	250.00	44	364.00	44	345.00	44	350.00	44	312.00					
45	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	45		45		45	5.60	45		45						
46	TOTAL ASH: COLLECTED (1,000 TONS) 10/	46	142.70	46	68.70	46	3.50	46	222.20	46	111.41					
47	SOLD (1,000 TONS) 11/	47		47		47	.70	47		47						
48	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	48		48		48		48		48						
49	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	49		49		49		49		49						
50	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	50		50		50		50		50						
51	MECHANICAL PRECIPITATORS (\$1,000)	51		51		51		51		51						
52	ELECTROSTATIC PRECIPITATORS (\$1,000)	52	777.31	52	341.30	52	317.10	52	1,417.80	52	149.00					
53	COMBINATION PRECIPITATORS (\$1,000) 4/	53		53		53		53		53						
54	DESULFURIZATION SYSTEMS (\$1,000)	54		54		54		54		54						
55	STACKS (\$1,000)	55	1,505.57	55	222.90	55	308.00	55	1,730.10	55	617.80					
56	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	56	179.40	56	19.90	56	35.00	56	306.10	56	597.20					
57	REVENUES FROM SALE OF ASH (\$1,000)	57		57		57		57	.80	57						
58	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	58		58		58		58		58						
59	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	59		59		59		59		59						
60	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	60	896.40	60	19.90	60	35.00	60	306.10	60	597.20					
	TOTAL BYPRODUCT SALES REVENUES (\$1,000)								.80							
WATER QUALITY CONTROL DATA																
61	COOLING WATER: SOURCE (CFS) 14/ L, M, R, W, H, S, ETC. 15/	61	L CAYUGA	61	L ONTARIO	61	R HUDSON	61	R NIAGARA	61	L ERIE					
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	352.63	62	500.00	62	784.00	62	1,160.00	62	890.00					
63	AVERAGE RATE OF DISCHARGE (CFS)	63	352.60	63	500.00	63	784.00	63	1,160.00	63	890.00					
64	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 16/	64	3.03 .04	64	4.30	64	6.74	64	9.98	64	7.65					
65	PEAK LOAD MONTH 17/	65	JUL	65	JAN	65	AUG	65	JAN	65	JUL					
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.) 18/	66	71.00	66	44.00	66	65.00	66	76.00	66	68.00					
67	AT OUTFALL, SUMMER - WINTER	67	82.00	67	57.00	67	79.00	67	86.00	67	43.00					
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS) 19/	68		68		68	62.00	68	43.00	68	54.00					
69	- WINTER	69		69	779.00	69	642.00	69	231,000.00	69						
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OIL	70		70		70	376.00	70	207,000.00	70						
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71		71	.10	71	.20	71	.05	71	.10					
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	64.25	72	133.02	72	.05	72	85.90	72	29.10					
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73		73		73	15.00	73		73	11.86					
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74		74	.20	74	1.90	74		74	.68					
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	3.00	75	.45	75	.07	75	112.00	75						
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76	YES	76	YES	76	YES	76	YES	76	YES					
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OTH	77	PS	77	PS	77	PS	77	PS	77	PS					
78	RECEIVING WATER BODY	78	L CAYUGA	78	L CAYUGA	78	O ORAIN FIELD	78		78						
79	POND DISCHARGE 20/	79		79	11.80	79	10.80	79	7.80	79	8.00					
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80		80		80		80	3.00	80	40.00					
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	81		81		81		81		81						
82	- ASH SETTLING	82		82	20,000.00	82		82	11,000.00	82	46,350.00					
COOLING FACILITY DATA																
83	NO. OF UNITS AND CAPACITY (MW) USING: 21/ ONCE THROUGH COOLING (FRESH)	83	2	270.00	83	4	376.00	83	4	400.00	83	6	828.00	83	4	628.00
84	ONCE THROUGH COOLING (SALINE)	84		84		84		84		84		84		84		
85	COOLING POND(S)	85		85		85		85		85		85		85		
86	COOLING TOWER(S)	86		86		86		86		86		86		86		
87	COMBINATIONS 22/	87		87		87		87		87		87		87		
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1955	1958	1940	1951	1952	1954	1942	1958	1950	1960	88			
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 23/	89	25.00	89	11.50	89	13.20	89	10.30	89	13.70	89	15.20			
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	376.00	90	736.00	90	780.00	90	780.00	90	1,292.00	90	892.00			
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	376.60	91	736.00	91	780.00	91	780.00	91	1,292.00	91	892.00			
CAPITAL COSTS OF COOLING FACILITIES																
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	715.00	92	1,516.40	92	410.40	92	3,637.80	92	4,593.60					
93	COOLING PONDS (\$1,000)	93		93		93		93		93						
94	COOLING TOWERS (\$1,000)	94		94		94		94		94						
ANNUAL COOLING WATER EXPENSES																
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	10.20	95	2.20	95	15.00	95	104.10	95	12.30					
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	.37	96		96	9.00	96	14.00	96						
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES																
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	7.40	97	1.50	97	30.00	97	44.50	97	25.60					
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	8.90	98	10.70	98	2.00	98	74.40	98	3.70					

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

NAME OF UTILITY	1	NIAGARA-MOHAWK POWER CORP.	NORTHERN INDIANA PUBLIC SERVICE CO.	NORTHERN INDIANA PUBLIC SERVICE CO.	NORTHERN INDIANA PUBLIC SERVICE CO.	NORTHERN STATES POWER CO. (MINN.)	1
NAME OF PLANT	2	9 MILE POINT NUC	8AILLY	MITCHELL	MICHIGAN CITY	BLACK OCG	2
UTILITY-PLANT CODE	3	341000-8100	345500-0100	345500-0300	345500-0400	347000-0300	3
STATE	4	NEW YORK	INDIANA	INDIANA	INDIANA	MINNESOTA	4
COUNTY	5	OSWEGO	PORTER	LAKE	LAPORTE	OKOTA	5
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	158	04	067	04	131	6
PLANT CAPACITY (MW)	7	620.00	615.60	529.40	215.03	486.66	7
ANNUAL GENERATION (MWH) 3/	8	2,937,400	2,551,200	3,281,500	838,100	2,259,500	8
PLANT HEAT RATE (BTU/KWH) 3/	9		9,944	9,952	11,986	11,039	9
AIR QUALITY CONTROL DATA							
FUEL CONSUMPTION DATA (ANNUAL)							
COAL: CONSUMPTION (1,000 TONS)	12		1,037.07	1,271.55	290.49	557.04	12
AVERAGE HEAT CONTENT (BTU/LB)	13		11,215	11,103	10,891	10,525	13
AVERAGE SULFUR CONTENT (%)	14		3.60	3.15	3.29	2.69	14
AVERAGE ASH CONTENT (%)	15		10.02	10.35	10.02	9.94	15
AVERAGE MOISTURE CONTENT (%)	16		11.98	11.73	13.69	14.92	16
OIL: CONSUMPTION (1,000 BARRELS)	17					3.99	17
AVERAGE HEAT CONTENT (BTU/GAL)	18					136,757	18
AVERAGE SULFUR CONTENT (%)	19					0.30	19
GAS: CONSUMPTION (1,000 MCF)	20		2,107.36	4,418.23	3,717.86	13,095.89	20
AVERAGE HEAT CONTENT (BTU/CU.FT.)	21		1,000	1,000	1,000	1,008	21
PLANT EQUIPMENT DATA							
BOILERS: - TOTAL NO.	22		2	4	6	4	22
- NO. OF WET BOTTOM	23		2		6		23
- NO. WITH FLY ASH REINJECTION	24		2		2		24
- NO. WITH MECHANICAL PRECIPITATORS	25				3		25
- NO. WITH ELECTROSTATIC PRECIPITATORS	26		2	4		4	26
- NO. WITH COMBINATION PRECIPITATORS 4/	27						27
- NO. WITH DESULFURIZATION SYSTEMS	28						28
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29		16.00 17.00	18.00 19.00	20.00	23.00 25.00	29
MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30				60.00		30
TESTED, LOW - HIGH	31						31
ESTIMATED, LOW - HIGH	32						32
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/:	33		96.50	98.00	90.00	98.00	33
DESIGN, LOW - HIGH	34					97.00	34
TESTED, LOW - HIGH	35					97.00	35
EST., LOW - HIGH	36		98.00	90.00	97.00	98.00	36
DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	37						37
TESTED, LOW - HIGH	38						38
ESTIMATED, LOW - HIGH	39						39
PLANT OPERATING DATA AND COST OF EQUIPMENT							
EST. TOTAL ANNUAL PLANT EMISSIONS 7/:	40			7.60	.06	2.82	40
PARTICULATE MATTER (1,000 TONS)	41		73.18	78.50	18.73	29.37	41
SULFUR DIOXIDE (1,000 TONS)	42		28.93	12.31	8.71	7.58	42
NITROGEN OXIDES (1,000 TONS)	43		1	2	4	2	43
STACKS: - TOTAL NO.	44		400.00	236.00	270.00	289.00	44
- HEIGHT (FEET), LOWEST - HIGHEST 8/	45						45
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	46		103.50	129.40	29.30	53.00	46
TOTAL ASH: COLLECTED (1,000 TONS) 10/	47		90.40	2.10			47
SOLD (1,000 TONS) 11/	48						48
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	49						49
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	50				153.40		50
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	51				726.00	1,306.00	51
INSTALLED COSTS:	52						52
MECHANICAL PRECIPITATORS (\$1,000)	53		1,108.00	1,506.00			53
ELECTROSTATIC PRECIPITATORS (\$1,000)	54						54
COMBINATION PRECIPITATORS (\$1,000) 4/	55						55
DESULFURIZATION SYSTEMS (\$1,000)	56				236.00	580.00	56
STACKS (\$1,000)	57		544.00	537.00	56.10	53.00	57
ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	58		122.80	223.32		3.70	58
REVENUES FROM SALE OF ASH (\$1,000)	59		15.40	.40			59
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	60						60
REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	61				85.00	53.00	61
TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	62		187.36	268.02		3.70	62
TOTAL BYPRODUCT SALES REVENUES (\$1,000)	63		15.40	.40			63
WATER QUALITY CONTROL DATA							
COOLING WATER: SOURCE (CODES R, L, B, C, H, M & O EXPL. IN FOOTNOTES)	64	L ONTARIO	L MICHIGAN	L MICHIGAN	L MICHIGAN	R MINNESOTA	64
AVERAGE RATE OF WITHDRAWAL (CFS)	65	518.00	524.00	690.00	246.00	175.00	65
AVERAGE RATE OF DISCHARGE (CFS)	66	518.00	524.00	690.00	246.00	175.00	66
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	67	4.45	4.51	5.93	2.13	.10	67
PEAK LOAD MONTH:	68	JUN	DEC	AUG	DEC	SEP	68
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	69	67.00 42.00	72.00 43.00	70.00 53.00	73.00 49.00	77.00 35.00	69
AT OUTFALL, SUMMER - WINTER	70	93.00 79.00	90.00 78.00	79.00 62.00	84.00 63.00	86.00 49.00	70
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	71					2,200.00	71
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, C 15/	72						72
CHEMICAL ADDITIVES:	73						73
PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	74		134.41	.30	.49	.60	74
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	75			51.63	33.24	42.50	75
LIME (TONS), COOLING WATER - BOILER MAKEUP	76		28.00				76
ALUM (TONS), COOLING WATER - BOILER MAKEUP	77			6.00	8.43		77
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	78		.20	11.00	9.00	104.00	78
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	79			YES	YES	YES	79
SEWAGE DISPOSAL: METHOD (R, S, ST, SH, OT) 16/	80	ST	ST	PS	PS	ST	80
RECEIVING WATER BODY	81	L ONTARIO				L BLACK OCG	81
POND DISCHARGE 17/	82						82
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	83		11.50	7.50	100.00	7.70	83
VOLUME (1,000 CU.FT./YR), BOILER BLOWDOWN - ASH SETTLING	84		79.40			103.60	84
BOILER BLOWDOWN - ASH SETTLING	85					2,780.00	85
BOILER BLOWDOWN - ASH SETTLING	86		17,000.00	140,000.00	35,000.00	103,900.00	86
COOLING FACILITY DATA							
NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	87	1 620.00	2 615.60	4 550.90	3 215.04		87
ONCE THROUGH COOLING (SALINE)	88						88
COOLING PONDS (S)	89						89
COOLING TOWERS (S)	90						90
COMBINATIONS 18/	91						91
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	92						92
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 19/	93	1967 32.00	1962 10.00 1968 21.00	1956 10.00 1970 10.00	1931 8.79 1951 10.00	1952 18.00	93
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	94	557.00	685.00	1,155.00	516.00	574.90	94
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	95	600.00	685.00	1,155.00	516.00	574.90	95
CAPITAL COSTS OF COOLING FACILITIES							
ONCE THROUGH COOLING SYSTEMS (\$1,000)	96	7,860.00	3,915.00	2,522.00	799.00	1,565.00	96
COOLING PONDS (\$1,000)	97					282.00	97
COOLING TOWERS (\$1,000)	98						98
ANNUAL COOLING WATER EXPENSES							
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	99		.90	2.00	.50	33.00	99
COST OF CHEMICAL ADDITIVES (\$1,000)	100		.90	1.60	2.00	17.00	100
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	101		12.00	36.50	49.00	10.00	101
COST OF CHEMICAL ADDITIVES (\$1,000)	102		5.93	9.90	.60	4.00	102

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10. INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	NORTHERN STATES POWER CO. (MINN.)	NORTHERN STATES POWER CO. (MINN.)	NORTHERN STATES POWER CO. (MINN.)	NORTHERN STATES POWER CO. (MINN.)	NORTHERN STATES POWER CO. (MINN.)
2		2					
3	NAME OF PLANT	3	HIGH BRIDGE	KING	LAWRENCE	MINNESOTA VALLEY	RIVERSIDE
4	UTILITY-PLANT CODE	4	347000-1300	347000-1400	347000-1500	347000-1800	347000-2700
5	STATE	5	MINNESOTA	MINNESOTA	SOUTH DAKOTA	MINNESOTA	MINNESOTA
6	COUNTY	6	RAMSEY	WASHINGTON	MINNEAPOLIS	CHIRREWA	HENNERIN
7	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	7	131 07	131 07	087 10	133 07	131 07
8	PLANT CAPACITY (MW)	8	463.84	598.40	48.00	66.00	449.86
9	ANNUAL GENERATION (MWH) 2/	9	2,347,900	3,034,000	133,300	194,300	2,094,700
10	PLANT HEAT RATE (BTU/KWH) 2/	10	11,416	9,633	14,138	13,247	11,182
11		11					
AIR QUALITY CONTROL DATA							
FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)	12	461.87	1,337.26	46.91	87.67	939.32
13	AVERAGE HEAT CONTENT (BTU/LB)	13	10,722	10,927	11,591	10,691	9,227
14	AVERAGE SULFUR CONTENT (%)	14	2.31	3.12	3.25	1.93	1.18
15	AVERAGE ASH CONTENT (%)	15	10.34	10.84	12.43	11.40	8.86
16	AVERAGE MOISTURE CONTENT (%)	16	16.36	12.20	9.07	13.68	22.33
17	OIL: CONSUMPTION (1,000 BARRELS)	17	96.08		3.38	4.48	76.17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	140,994		137,410	136,300	137,805
19	AVERAGE SULFUR CONTENT (%)	19	.30		.30	.30	.30
20	GAS: CONSUMPTION (1,000 MCF)	20	16,616.61		794.44	697.26	5,699.94
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	983		1,001	999	991
PLANT EQUIPMENT DATA							
22	BOILERS: - TOTAL NO.	22	12	1	3	4	18
23	- NO. OF WET BOTTOM	23		1			1
24	- NO. WITH FLY ASH REINJECTION	24		1	2		1
25	- NO. WITH MECHANICAL PRECIPITATORS	25			3	1	5
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26	4	1			3
27	- NO. WITH COMBINATION PRECIPITATORS	27					
28	- NO. WITH DESULFURIZATION SYSTEMS	28					
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 2/	29	20.00 25.00	16.00	25.00 35.00	20.00 23.00	20.00 30.00
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30			85.00 94.00	90.00	94.00
31	TESTED, LOW - HIGH	31				82.90	
32	ESTIMATED, LOW - HIGH	32					
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	33	94.00 98.00	99.00	85.00 94.00		98.00
34	TESTED, LOW - HIGH	34	43.00 53.00	98.50			98.00
35	EST., LOW - HIGH	35	43.00 93.00	98.00			97.00
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36					
37	TESTED, LOW - HIGH	37					
38	ESTIMATED, LOW - HIGH	38					
PLANT OPERATING DATA AND COST OF EQUIPMENT							
39	EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	39	8.29	5.19	.66	2.95	1.58
40	SULFUR DIOXIDE (1,000 TONS)	40	21.01	81.78	2.99	3.32	21.80
41	NITROGEN OXIDES (1,000 TONS)	41	7.61	10.03	.54	.89	24.20
42	STACKS: - TOTAL NO.	42	5	1	3	2	9
43	- HEIGHT (FEET), LOWEST - HIGHEST 2/	43	292.50	789.00	165.00	277.50	253.00
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 2/	44					
45	TOTAL ASH: COLLECTED (1,000 TONS) 2/	45	46.00	144.00	5.30	8.20	80.00
46	SOLO (1,000 TONS) 2/	46					
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47					
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 2/	48					
49	ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	49					
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50			36.00	52.00	158.40
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51	962.00	1,370.00			1,002.00
52	COMBINATION PRECIPITATORS (\$1,000) 2/	52					
53	DESULFURIZATION SYSTEMS (\$1,000)	53					
54	STACKS (\$1,000)	54	500.00	1,635.00	201.00	169.00	676.00
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	105.00	65.00	32.00	13.00	100.00
56	REVENUES FROM SALE OF ASH (\$1,000)	56		.50			3.40
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57					
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58					
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 2/	59	105.00	90.00	32.00	13.00	100.00
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60		.50			3.40
WATER QUALITY CONTROL DATA							
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R MISSISSIPPI	R ST. CROIX	RW BIG SIOUX	R MINNESOTA	R MISSISSIPPI
62	AVERAGE RATE OF WITHDRAWAL (CFD)	62	382.00	445.00	.60	42.00	350.00
63	AVERAGE RATE OF DISCHARGE (CFD)	63	382.00	444.70	.24	42.00	350.00
64	AVERAGE RATE OF CONSUMPTION (CFD), CALCULATED - RECORDED 2/	64	3.29	.30	.36	.36	3.01
65	PEAK LOAD MONTH: SUMMER - WINTER 2/	65	SEP OEC	SEP OEC	SEP OEC	SEP OEC	SEP OEC
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	76.00 35.00	76.00 33.00	78.00 34.00	83.00 35.00	79.00 35.00
67	AT OUTFALL, SUMMER - WINTER	67	95.00 69.00	86.00 59.00	90.00 40.00	97.00 42.00	91.00 75.00
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFD): SUMMER - WINTER	68	3,600.00	2,400.00	31.00	200.00	3,300.00
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, CIB	69	13,800.00	4,000.00	83.00	1,200.00	10,900.00
70	CHEMICAL ADDITIVES: RHOSMATE (TONS), COOLING WATER - BOILER MAKEUP	70					
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71	18.00		1.80	.20	.31
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	72	142.00	250.00	50.00	1.55	.35
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	73			196.25		4.44
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74			3.75		.75
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75	9.50	10.65	1.90	1.04	9.50
76	SEWAGE DISPOSAL: METHOD RS, ST, SW, OT 2/	76	RS	PS	ST	ST	PS
77	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	77					
78	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	78					
79	VOLUME (1,000 CU.FT./YR), BOILER BLOWDOWN	79	93.00		1.00	10.70	46.50
80		80					
81		81					
82		82					
COOLING FACILITY DATA							
83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	83	6	463.84		3	66.00
84	ONCE THROUGH COOLING (SALINE)	84					8
85	COOLING PONDS (S)	85					
86	COOLING TOWERS (S)	86			3	48.00	
87	COMBINATION 2/	87					
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1923 1959	1968	1948 1951	1950 1955	1914 1964
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 2/	89	18.00 20.00	16.90	14.50	16.00	18.40
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFD)	90	662.90	619.50	100.30	92.40	911.50
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFD)	91	662.90	619.50	1.20	92.40	911.50
CAPITAL COSTS OF COOLING FACILITIES							
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	2,142.00	1,819.00	719.00	344.00	2,164.00
93	COOLING PONDS (\$1,000)	93		1,633.00	308.00		
94	COOLING TOWERS (\$1,000)	94					
ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	13.00	80.00	45.00	10.00	90.00
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	2.00	15.00	13.40	.30	1.50
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	22.00	5.00	15.00	1.30	14.00
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	20.00	9.00	.60	1.10	1.00

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

NAME OF UTILITY	1	NORTHERN STATES POWER CO. (MINN.)	NORTHERN STATES POWER CO. (MINN.)	NORTHERN STATES POWER CO. (MINN.)	NORTHERN STATES POWER CO. (MINN.)	NORTHERN STATES POWER CO. (MINN.)	12
NAME OF PLANT	2	3	4	5	6	7	13
UTILITY-PLANT CODE	3	4	5	6	7	8	14
STATE	4	5	6	7	8	9	15
COUNTY	5	6	7	8	9	10	16
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	7	8	9	10	11	17
PLANT CAPACITY (MW)	7	8	9	10	11	12	18
ANNUAL GENERATION (MWH) 3/	8	9	10	11	12	13	19
PLANT HEAT RATE (BTU/KWH) 4/	9	10	11	12	13	14	20
AIR QUALITY CONTROL DATA							
FUEL CONSUMPTION DATA (ANNUAL)							
COAL: CONSUMPTION (1,000 TONS)	12	13	14	15	16	17	21
AVERAGE HEAT CONTENT (BTU/LB)	13	14	15	16	17	18	22
AVERAGE SULFUR CONTENT (%)	14	15	16	17	18	19	23
AVERAGE ASH CONTENT (%)	15	16	17	18	19	20	24
AVERAGE MOISTURE CONTENT (%)	16	17	18	19	20	21	25
OIL: CONSUMPTION (1,000 BARRELS)	17	18	19	20	21	22	26
AVERAGE HEAT CONTENT (BTU/GAL)	18	19	20	21	22	23	27
AVERAGE SULFUR CONTENT (%)	19	20	21	22	23	24	28
GAS: CONSUMPTION (1,000 MCF)	20	21	22	23	24	25	29
AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	22	23	24	25	26	30
PLANT EQUIPMENT DATA							
BOILERS: - TOTAL NO.	22	23	24	25	26	27	31
- NO. OF NET BOTTOM	23	24	25	26	27	28	32
- NO. WITH FLY ASH REINJECTION	24	25	26	27	28	29	33
- NO. WITH MECHANICAL PRECIPITATORS	25	26	27	28	29	30	34
- NO. WITH ELECTROSTATIC PRECIPITATORS	26	27	28	29	30	31	35
- NO. WITH COMBINATION PRECIPITATORS 5/	27	28	29	30	31	32	36
- NO. WITH DESULFURIZATION SYSTEMS	28	29	30	31	32	33	37
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 6/	29	30	31	32	33	34	38
MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN,	30	31	32	33	34	35	39
TESTED,	31	32	33	34	35	36	40
ESTIMATED,	32	33	34	35	36	37	41
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 7/	33	34	35	36	37	38	42
DESIGN,	34	35	36	37	38	39	43
TESTED,	35	36	37	38	39	40	44
EST.,	36	37	38	39	40	41	45
DESULFURIZATION SYSTEM EFFICIENCY: DESIGN,	37	38	39	40	41	42	46
TESTED,	38	39	40	41	42	43	47
ESTIMATED,	39	40	41	42	43	44	48
PLANT OPERATING DATA AND COST OF EQUIPMENT							
EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	39	40	41	42	43	44	50
SULFUR DIOXIDE (1,000 TONS)	40	41	42	43	44	45	51
NITROGEN OXIDES (1,000 TONS)	41	42	43	44	45	46	52
STACKS: - TOTAL NO.	42	43	44	45	46	47	53
- HEIGHT (FEET), LOWEST - HIGHEST 8/	43	44	45	46	47	48	54
COMBUSTION CYCLE ADJUSTERS (1,000 TONS)	44	45	46	47	48	49	55
TOTAL ASH: COLLECTED (1,000 TONS) 9/	45	46	47	48	49	50	56
SOLO (1,000 TONS) 10/	46	47	48	49	50	51	57
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47	48	49	50	51	52	58
EQUIVALENT OF ACIO COLLECTED (1,000 TONS) 11/	48	49	50	51	52	53	59
ELEMENTAL AND EQUIVALENT OF ACIO SOLO (1,000 TONS)	49	50	51	52	53	54	60
INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50	51	52	53	54	55	61
ELECTROSTATIC PRECIPITATORS (\$1,000)	51	52	53	54	55	56	62
COMBINATION PRECIPITATORS (\$1,000) 12/	52	53	54	55	56	57	63
DESULFURIZATION SYSTEMS (\$1,000)	53	54	55	56	57	58	64
STACKS (\$1,000)	54	55	56	57	58	59	65
ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	56	57	58	59	60	66
REVENUES FROM SALE OF ASH (\$1,000)	56	57	58	59	60	61	67
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57	58	59	60	61	62	68
REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58	59	60	61	62	63	69
TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	59	60	61	62	63	64	70
TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60	61	62	63	64	65	71
WATER QUALITY CONTROL DATA							
COOLING WATER: SOURCE (CODES R, L, B, C, V, M & O EXPL. III FOOTNOTES)	61	62	63	64	65	66	72
AVERAGE RATE OF WITHDRAWAL (CFS)	62	63	64	65	66	67	73
AVERAGE RATE OF DISCHARGE (CFS)	63	64	65	66	67	68	74
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	64	65	66	67	68	69	75
SEP	65	66	67	68	69	70	76
DEC	66	67	68	69	70	71	77
MAX. TEMP. DURING PEAK MONTH (OEG. F.) 15/	67	68	69	70	71	72	78
AT DIVERSION, SUMMER - WINTER	68	69	70	71	72	73	79
AT OUTFALL, SUMMER - WINTER	69	70	71	72	73	74	80
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS) 16/	70	71	72	73	74	75	81
SUMMER	71	72	73	74	75	76	82
WINTER	72	73	74	75	76	77	83
FREQUENCY OF TEMPERATURE MONITORING: C, M, O, C 17/	73	74	75	76	77	78	84
CHEMICAL ADJUSTERS: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	74	75	76	77	78	79	85
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	75	76	77	78	79	80	86
LIME (TONS), COOLING WATER - BOILER MAKEUP	76	77	78	79	80	81	87
ALUM (TONS), COOLING WATER - BOILER MAKEUP	77	78	79	80	81	82	88
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	78	79	80	81	82	83	89
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	79	80	81	82	83	84	90
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 18/	80	81	82	83	84	85	91
RECEIVING WATER BODY	81	82	83	84	85	86	92
POND DISCHARGE 19/	82	83	84	85	86	87	93
BOILER BLOWDOWN - ASH SETTLING	83	84	85	86	87	88	94
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	84	85	86	87	88	89	95
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	85	86	87	88	89	90	96
COOLING FACILITY DATA							
NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	86	87	88	89	90	91	97
ONCE THROUGH COOLING (SALINE)	87	88	89	90	91	92	98
COOLING PONDS (S)	88	89	90	91	92	93	99
COOLING TOWERS (S)	89	90	91	92	93	94	100
COMBINATION 20/	90	91	92	93	94	95	101
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	91	92	93	94	95	96	102
DESIGN: TEMP. RISE ACROSS CONDENSERS (OEG. F.), SMALLEST - LARGEST 21/	92	93	94	95	96	97	103
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	93	94	95	96	97	98	104
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	94	95	96	97	98	99	105
CAPITAL COSTS OF COOLING FACILITIES							
ONCE THROUGH COOLING SYSTEMS (\$1,000)	95	96	97	98	99	100	106
COOLING PONDS (\$1,000)	96	97	98	99	100	101	107
COOLING TOWERS (\$1,000)	97	98	99	100	101	102	108
ANNUAL COOLING WATER EXPENSES							
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	98	99	100	101	102	103	109
COST OF CHEMICAL ADJUSTERS (\$1,000)	99	100	101	102	103	104	110
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	100	101	102	103	104	105	111
COST OF CHEMICAL ADJUSTERS (\$1,000)	101	102	103	104	105	106	112

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	NORTHERN STATES POWER CO. (MINN.)	OHIO EDISON CO.	OHIO EDISON CO.	OHIO EDISON CO.	OHIO EDISON CO.	OHIO EDISON CO.
2	NAME OF PLANT	2	PATHFINDER	EDGEWATER	GORGE STEAM	MAD RIVER	NILES	
3	UTILITY-PLANT CODE	3	347000-5250	354500-0100	354500-0200	354500-0300	354500-0400	
4	STATE	4	SOUTH DAKOTA	OHIO	OHIO	OHIO	OHIO	
5	COUNTY	5	MINNEHAHA	LORAIN	SUMMIT	CLARK	TRUMBULL	
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	087 10	174 04	174 04	173 05	178 05	
7	PLANT CAPACITY (MWH) 3/	7	75.00	192.87	87.50	75.00	250.00	
8	ANNUAL GENERATION (MWH) 3/	8	154,800	676,600	426,700	191,200	1,368,800	
9	PLANT HEAT RATE (BTU/KWH) 3/	9	13,965	11,586	12,705	14,634	10,267	
AIR QUALITY CONTROL DATA								
FUEL CONSUMPTION DATA (ANNUAL)								
12	COAL: CONSUMPTION (1,000 TONS)	12		339.30	238.30	118.30	633.80	
13	AVERAGE HEAT CONTENT (BTU/LB)	13		11,501	11,376	11,825	11,087	
14	AVERAGE SULFUR CONTENT (%)	14		2.78	3.47	1.62	2.78	
15	AVERAGE ASH CONTENT (%)	15		14.04	13.46	11.77	15.61	
16	AVERAGE MOISTURE CONTENT (%)	16		6.18	7.12	7.89	7.75	
17	OIL: CONSUMPTION (1,000 BARRELS)	17						
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	167.55					
19	AVERAGE SULFUR CONTENT (%)	19	150.652					
20	GAS: CONSUMPTION (1,000 MCF)	20	2.00					
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,102.36					
PLANT EQUIPMENT DATA								
22	BOILERS: - TOTAL NO.	22	3	3	2	4	2	
23	- NO. OF WET BOTTOM	23						
24	- NO. WITH FLY ASH REINJECTION	24						
25	- NO. WITH MECHANICAL PRECIPITATORS	25		2		4		
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26		3			2	
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27			2			
28	- NO. WITH DESULFURIZATION SYSTEMS	28						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	15.00	25.00	27.00	25.00	30.00	18.00
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30		25.00	85.00		55.00	80.00
31	TESTED, LOW - HIGH	31						
32	ESTIMATED, LOW - HIGH	32						
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/	33		98.00	99.00	98.00	80.00	70.00
34	DESIGN, LOW - HIGH	34						
35	TESTED, LOW - HIGH	35			99.40	99.50		
36	ESTIMATED, LOW - HIGH	36						
37	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	37						
38	TESTED, LOW - HIGH	38						
39	ESTIMATED, LOW - HIGH	39						
PLANT OPERATING DATA AND COST OF EQUIPMENT								
39	EST. TOTAL ANNUAL PLANT EMISSIONS 7/	39						
40	SULFUR DIOXIDE (1,000 TONS)	40	0.03	21	67	2.78	2.97	
41	NITROGEN OXIDES (1,000 TONS)	41	1.12	18.49	16.21	3.76	34.53	
42	STACKS: - TOTAL NO.	42	1	2	2	1.02	17.43	
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	43	150.00	254.00	280.00	275.00	300.00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	44						
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	45						
46	SOLD (1,000 TONS) 11/	46		46.50	31.60	11.80	96.20	
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47		5.90			45.40	
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	48						
49	EQUIVALENT AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50		68.00		37.00	172.00	
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51		1,323.00				
52	COMBINATION PRECIPITATORS (\$1,000) 14/	52			1,071.00			
53	DESULFURIZATION SYSTEMS (\$1,000)	53						
54	STACKS (\$1,000)	54	83.00	93.00	47.00	25.00	104.00	
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55		103.20	74.50	41.40	155.20	
56	REVENUES FROM SALE OF ASH (\$1,000)	56		4.60			11.60	
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	59		103.50	75.70	41.40	171.40	
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60		4.60			11.60	
WATER QUALITY CONTROL DATA								
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. III FOOTNOTES)	61	R 816 SIOUX	L ERIE	R CUYAHOGA	R MAD	R MAHONING	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	2.67	116.18	99.47	35.67	211.91	
63	AVERAGE RATE OF DISCHARGE (CFS)	63	2.25	116.18	99.47	35.67	211.91	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 15/	64	4.1	1.00	0.86	0.31	1.82	
65	PEAK LOAD MONTH: SEP	65	73.00	34.00	84.00	60.00	84.00	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT OVERFLOW, SUMMER - WINTER	66	79.00	40.00	104.00	83.00	71.00	
67	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	67		31.00	70.00	259.00	522.00	
68	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, C 16/	68		83.00	330.00	602.00	1,176.00	
69	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	69						
70	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	70						
71	LIME (TONS), COOLING WATER - BOILER MAKEUP	71		4.50		5.3	60.30	
72	ALUM (TONS), COOLING WATER - BOILER MAKEUP	72		45.00		7.75		
73	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	73		300.00			7.15	
74	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	74		6.00			5.2	
75	SEWAGE DISPOSAL: METHON PS, ST, SW, GT 17/	75	YES	YES	YES	YES	YES	
76	POND DISCHARGE 18/	76	ST	ST/PS	ST	ST	ST	
77	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	77		6.27				
78	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	78		166.00				
79	BOILER BLOWDOWN - ASH SETTLING	79						
80	BOILER BLOWDOWN - ASH SETTLING	80						
81	BOILER BLOWDOWN - ASH SETTLING	81						
82	BOILER BLOWDOWN - ASH SETTLING	82						
COOLING FACILITY DATA								
83	NO. OF UNITS AND CAPACITY (MWH) USING: ONCE THROUGH COOLING (FRESH)	83		3	2	3	2	
84	ONCE THROUGH COOLING (SALINE)	84		192.87	87.50	75.00	250.00	
85	COOLING POND(S)	85						
86	COOLING TOWER(S)	86	1	75.00				
87	COMBINATIONS 22/	87						
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1962	1923	1957	1943	1948	1954
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 23/	89	16.00	15.00	16.00	17.00	15.00	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	133.10	325.30	196.06	172.80	312.00	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	1.35	325.30	196.06	172.80	312.00	
CAPITAL COSTS OF COOLING FACILITIES								
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	1,622.00	1,519.60	182.60	24.10	554.60	
93	COOLING PONDS (\$1,000)	93						
94	COOLING TOWERS (\$1,000)	94	576.00					
ANNUAL COOLING WATER EXPENSES								
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	75.00	37.50	41.70	47.70	62.10	
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	35.00	9.90	1.50	1.10	2.10	
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES								
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	25.00	13.00	11.20	1.60	16.20	
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	1.00	5.20	4.70	1.00	7.00	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

NAME OF UTILITY	OHIO EDISON CO.	OHIO EDISON CO.	OHIO EDISON CO.	OHIO POWER CO.	OHIO POWER CO.
NAME OF PLANT	BURGER	TORONTO	SAMMIS	KAMMER	MUSKINGUM
UTILITY-PLANT CODE	354500-0500	354500-0600	354500-0700	355000-0100	355000-0200
STATE	OHIO	OHIO	OHIO	WEST VIRGINIA	OHIO
COUNTY	BELOMONT	JEFFERSON	JEFFERSON	MARSHALL	MORGAN
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	181 05	181 05	181 05	181 05	179 05
PLANT CAPACITY (MW)	544.00	175.75	2,303.50	712.50	1,529.60
ANNUAL GENERATION (MWH) 3/	3,028,900	699,000	8,112,700	3,594,900	9,030,000
PLANT HEAT RATE (BTU/KWH) 4/	10,603	14,089	9,437	9,998	9,431

AIR QUALITY CONTROL DATA					
FUEL CONSUMPTION DATA (ANNUAL)					
COAL: CONSUMPTION (1,000 TONS)	12	1,379.80	468.30	3,881.90	4,192.40
AVERAGE HEAT CONTENT (BTU/LB)	13	11,638	10,515	11,180	10,134
AVERAGE SULFUR CONTENT (%)	14	3.23	2.40	2.68	4.91
AVERAGE ASH CONTENT (%)	15	12.43	17.98	15.34	19.97
AVERAGE MOISTURE CONTENT (%)	16	7.52	8.07	7.09	7.75
OIL: CONSUMPTION (1,000 BARRELS)	17				46.70
AVERAGE HEAT CONTENT (BTU/GAL)	18				136,550
AVERAGE SULFUR CONTENT (%)	19				1.10
GAS: CONSUMPTION (1,000 MCF)	20				
AVERAGE HEAT CONTENT (BTU/CU.FT.)	21				

PLANT EQUIPMENT DATA					
BOILERS: - TOTAL NO.	22	8	10	7	3
- NO. OF WET BOTTOM	23		8		4
- NO. WITH FLY ASH REINJECTION	24				2
- NO. WITH MECHANICAL PRECIPITATORS	25	1	10	3	2
- NO. WITH ELECTROSTATIC PRECIPITATORS	26	2	3	6	1
- NO. WITH COMBINATION PRECIPITATORS 5/	27				
- NO. WITH DESULFURIZATION SYSTEMS	28				
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 6/	29	25.00	20.00	30.00	20.00
MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30	80.00	80.00	91.10	20.00
TESTED, LOW - HIGH	31				15.00
ESTIMATED, LOW - HIGH	32	80.00	99.00	97.00	20.00
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 5/:	33	97.00	99.00	97.00	99.00
DESIGN, LOW - HIGH	34		98.60	99.10	96.60
TESTED, LOW - HIGH	35	97.00	99.00	97.00	89.20
EST., LOW - HIGH	36				85.00
DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	37				
TESTED, LOW - HIGH	38				
ESTIMATED, LOW - HIGH	38				

PLANT OPERATING DATA AND COST OF EQUIPMENT					
EST. TOTAL ANNUAL PLANT EMISSIONS 7/:	39	4.74	7.73	10.05	4.15
PARTICULATE MATTER (1,000 TONS)	40	87.35	22.03	203.91	100.87
SULFUR DIOXIDE (1,000 TONS)	41	12.42	4.84	34.94	403.46
NITROGEN OXIDES (1,000 TONS)	42	5	9	41.57	67.46
STACKS: - TOTAL NO.	43	245.00	131.00	650.00	298.00
- HEIGHT (FEET), LOWEST - HIGHEST 8/	44	305.00	650.00	1,000.00	825.00
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	45				
TOTAL ASH: COLLECTED (1,000 TONS) 10/	46	160.70	83.60	599.90	770.00
SOLD (1,000 TONS) 11/	47	5.20		16.80	19.00
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	48				
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	49				
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	50				
INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	51	23.00	530.00		
ELECTROSTATIC PRECIPITATORS (\$1,000)	52	5,334.00	2,686.00	3,498.00	1,885.00
COMBINATION PRECIPITATORS (\$1,000) 4/	53	724.00			
DESULFURIZATION SYSTEMS (\$1,000)	54	250.00	1,335.00	7,609.00	1,421.00
STACKS (\$1,000)	55	206.60	83.70	845.50	428.80
ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	56	1.80		8.50	
REVENUES FROM SALE OF ASH (\$1,000)	57				
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	58				
REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	59	209.10	85.00	845.50	428.80
TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	60	1.80		8.50	
TOTAL BYPRODUCT SALES REVENUES (\$1,000)					

WATER QUALITY CONTROL DATA					
COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R OHIO	R OHIO	R OHIO	R OHIO
AVERAGE RATE OF WITHDRAWAL (CFS)	62	462.50	167.56	1,231.77	808.00
AVERAGE RATE OF DISCHARGE (CFS)	63	462.50	167.56	1,231.77	808.00
AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	64	3.98	1.44	10.59	6.95
PEAK LOAD MONTH: JUL	65	DEC	JUL	DEC	AUG
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT OVERFLOW, SUMMER - WINTER	66	86.00	84.00	84.00	80.00
AT OUTFALL, SUMMER - WINTER	67	108.00	98.00	107.00	99.00
AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68	11,100.00	12,000.00	12,000.00	15,700.00
- WINTER	69	60,800.00	59,000.00	59,000.00	58,400.00
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OH 15/	70				
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71				.60
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	181.50	284.88	284.70	.25
LIME (TONS), COOLING WATER - BOILER MAKEUP	73		46.45		10.80
ALUM (TONS), COOLING WATER - BOILER MAKEUP	74	.25	36.50		
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	23.00	36.00	117.00	32.00
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76	YES	YES	YES	YES
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 16/	77	ST R OHIO	ST R OHIO	ST R OHIO	OT R MUSKINGUM
RECEIVING WATER BODY	78				
POND DISCHARGE 17/	79	10.16		7.10	6.90
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80				6.00
VOLUME 11,000 GPM/YR., BOILER BLOWDOWN	81				25.00
- ASH SETTLING	82				330,000.00

COOLING FACILITY DATA					
NO. OF UNITS AND CAPACITY (MW) USING 18/	83	5	7	6	3
ONCE THROUGH COOLING (FRESH)	84	544.00	315.75	1,680.50	712.50
ONCE THROUGH COOLING (SALINE)	85				
COOLING POND(S)	86				
COMBINATION(S)	87				
COOLING TOWER(S)	88				
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 19/	89	15.00	14.00	16.70	12.20
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	809.30	790.92	1,793.50	1,016.10
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	809.30	790.92	2,587.60	1,070.00

CAPITAL COSTS OF COOLING FACILITIES					
ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	4,736.40	346.70	12,963.00	
COOLING POND(S) (\$1,000)	93				
COOLING TOWERS (\$1,000)	94				3,435.00

ANNUAL COOLING WATER EXPENSES					
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	127.10	101.50	552.10	24.50
COST OF CHEMICAL ADDITIVES (\$1,000)	96	2.80	3.90	17.90	24.30

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES					
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	28.30	7.20	84.90	13.50
COST OF CHEMICAL ADDITIVES (\$1,000)	98	25.80	34.00	56.50	6.00

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	OHIO POWER CO.	OHIO POWER CO.	OHIO POWER CO.	OHIO POWER CO.	OHIO VALLEY ELECTRIC COOP.
2		2					
3	NAME OF PLANT	3	PHILO	T100	WOODCOCK	MITCHELL	KYGER CREEK
4	UTILITY-PLANT CODE	4	355000-0300	355000-0400	355000-0500	355000-0600	356000-0100
5	STATE	5	OHIO	OHIO	OHIO	WEST VIRGINIA	OHIO
6	COUNTY	6	MUSKINGUM	JEFFERSON	ALLEN	MARSHALL	GALLIA
7	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	7	183	05	181	05	103
8	PLANT CAPACITY (MW)	8	500.00	226.30	177	04	37.50
9	ANNUAL GENERATION (MWH) 3/	9	1,470,200	1,170,500	83,689	1,632.60	1,086.00
10	PLANT HEAT RATE (BTU/KWH) 4/	10	13,312	12,022	17,894	9,524	7,272,000
11		11					9,309
AIR QUALITY CONTROL DATA							
FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)	12	958.50	578.70	56.80	1,455.10	3,122.00
13	AVERAGE HEAT CONTENT (BTU/LB)	13	10,378	12,004	12,516	11,297	10,956
14	AVERAGE SULFUR CONTENT (%)	14	3.90	2.92	.65	3.34	3.93
15	AVERAGE ASH CONTENT (%)	15	16.87	12.61	6.70	15.27	16.22
16	AVERAGE MOISTURE CONTENT (%)	16	9.21	5.71		6.85	7.86
17	OIL: CONSUMPTION (1,000 BARRELS)	17	12.50	16.70	13.00	112.60	
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	136,825	138,400	139,567	138,812	
19	AVERAGE SULFUR CONTENT (%)	19	.10	.10	.10	.10	
20	GAS: CONSUMPTION (1,000 MCF)	20					
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21					
PLANT EQUIPMENT DATA							
22	BOILERS: - TOTAL NO.	22	13	3	5	2	5
23	- NO. OF WET BOTTOM	23	1				5
24	- NO. WITH FLY ASH REINJECTION	24					
25	- NO. WITH MECHANICAL PRECIPITATORS	25	6	3	1		
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26					
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27					
28	- NO. WITH DESULFURIZATION SYSTEMS	28				2	
29	- EXCESS AIR USED (%) LOWEST BOILER - HIGHEST BOILER 5/	29					5
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30	20.00	20.00	20.00	18.00	17.50
31	TESTED, LOW - HIGH	31		85.00			
32	ESTIMATED, LOW - HIGH	32	84.00	86.00			
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	33					
34	TESTED, LOW - HIGH	34				96.88	98.50
35	EST., LOW - HIGH	35				96.88	98.33
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36					96.10
37	TESTED, LOW - HIGH	37					
38	ESTIMATED, LOW - HIGH	38					96.10
PLANT OPERATING DATA AND COST OF EQUIPMENT							
39	EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	39	32.41	9.30		3.82	12.84
40	SULFUR DIOXIDE (1,000 TONS)	40	73.26	33.12		95.24	240.48
41	NITROGEN OXIDES (1,000 TONS)	41	12.69	5.25	.54	13.34	46.83
42	STACKS: - TOTAL NO.	42				5	3
43	- HEIGHT (FEET), LOWEST - HIGHEST 6/	43	90.00	182.00		1,203.00	538.00
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 7/	44		24.00	165.00		
45	TOTAL ASH: COLLECTED (1,000 TONS) 8/	45	220.00	45.50		208.10	495.00
46	SOLD (1,000 TONS) 9/	46	74.00			1.40	277.00
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47					
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 10/	48					
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49					
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50					
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51					
52	COMBINATION PRECIPITATORS (\$1,000) 4/	52				6,852.00	
53	DESULFURIZATION SYSTEMS (\$1,000)	53					2,675.00
54	STACKS (\$1,000)	54					
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	184.50	44.60	3.00	7,725.00	2,211.00
56	REVENUES FROM SALE OF ASH (\$1,000)	56				216.70	712.00
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57					97.00
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58					
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 11/	59	187.50	44.60	8.00	216.70	712.00
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60					97.00
WATER QUALITY CONTROL DATA							
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R MUSKINGUM	R OHIO	O NATL. QUARRY	R OHIO	R OHIO
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	975.00	401.07	385.00	54.91	1,740.00
63	AVERAGE RATE OF DISCHARGE (CFS)	63	975.00	400.98	385.00	28.25	1,740.00
64	AVG. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 12/	64	8.39	3.45	.09	26.66	14.96
65	PEAK LOAD MONTH -	65	AUG	DEC	AUG	DEC	JUN
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER 13/	66	78.00	48.00	78.90	43.30	85.00
67	AT OUTFALL, SUMMER - WINTER	67	89.00	59.00	86.20	52.20	84.00
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	68	7,740.00	19,530.00	19,530.00	15,700.00	58,400.00
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C 14/	69	7,740.00	68,260.00			
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70					
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71		2.00	.04	.22	
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	72		.50	5.58	166.84	
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	73					
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74					
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75	31.00	YES	5.70	.30	35.00
76	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 15/	76	OT	YES	PS	YES	OT
77	POND DISCHARGE 16/	77	R MUSKINGUM				R OHIO
78	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	78	30.00	7.00	8.50	7.80	8.80
79	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	79	68,000.00		20.00		35.00
80		80	165,000.00			144.65	
81		81		4,900.00		2,000.00	
82		82				280,000.00	265.83
COOLING FACILITY DATA							
83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	83	5	444.00	2	222.20	
84	ONCE THROUGH COOLING (SALINE)	84					5
85	COOLING POND(S)	85					37.50
86	COOLING TOWER(S)	86					
87	COMBINATIONS 22/	87					
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1924	1957	1945	1948	1938
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 23/	89	10.40	13.10		13.00	1950
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	554.10			423.40	11.80
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	985.00			75.80	1,334.00
CAPITAL COSTS OF COOLING FACILITIES							
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92					
93	COOLING PONDS (\$1,000)	93					2,880.00
94	COOLING TOWERS (\$1,000)	94					9,292.00
ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	26.30	6.70		7.00	217.00
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	3.50	.80		3.70	13.00
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	25.20	3.00		4.60	23.00
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	105.00	1.30	6.70	32.10	6.00

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10. INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	OKLAHOMA GAS & ELECTRIC CO.	OKLAHOMA GAS & ELECTRIC CO.	OKLAHOMA GAS & ELECTRIC CO.	OKLAHOMA GAS & ELECTRIC CO.	OKLAHOMA GAS & ELECTRIC CO.	1	
2	NAME OF PLANT	2	ARBUCKLE	BELLE ISLE	HORSESHOE LAKE	MUSTANG	OSAGE	2	
3	UTILITY-PLANT CODE	3	356500-0100	356500-0200	356500-0500	356500-0600	356500-0700	3	
4	STATE	4	OKLAHOMA	OKLAHOMA	OKLAHOMA	OKLAHOMA	OKLAHOMA	4	
5	COUNTY	5	MURRAY	OKLAHOMA	OKLAHOMA	CANADIAN	KAY	5	
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	188	11	184	11	185	11	
7	PLANT CAPACITY (MM)	7	73.50	55.00	916.23	509.30	40.00	7	
8	ANNUAL GENERATION (MWH) 2/	8	229,600	87,000	3,744,200	2,686,400	87,900	8	
9	PLANT HEAT RATE (BTU/KWH) 2/	9	12,656	16,756	11,257	10,840	16,467	9	
AIR QUALITY CONTROL DATA									
FUEL CONSUMPTION DATA (ANNUAL)									
12	COAL: CONSUMPTION (1,000 TONS)	12				12,971	11,200	12	
13	AVERAGE HEAT CONTENT (BTU/LB)	13				1.30	2.10	13	
14	AVERAGE SULFUR CONTENT (%)	14				10.00	2.10	14	
15	AVERAGE ASH CONTENT (%)	15				10.50	9.10	15	
16	AVERAGE MOISTURE CONTENT (%)	16						16	
17	DIL: CONSUMPTION (1,000 BARRELS)	17		10	15	10.36		17	
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	139,000	145,504	147,334			18	
19	AVERAGE SULFUR CONTENT (%)	19		20	20	1.70		19	
20	GAS: CONSUMPTION (1,000 MCF)	20	2,801.45	1,380.20	40,738.70	28,072.12	1,356.97	20	
21	AVERAGE HEAT CONTENT (BTU/CU. FT.)	21	1,037	1,055	1,033	1,037	1,055	21	
PLANT EQUIPMENT DATA									
22	BOILERS: - TOTAL NO.	22	1	3	9	4	3	22	
23	- NO. OF NET BOTTOM	23			1	2	2	23	
24	- NO. WITH FLY ASH REINJECTION	24						24	
25	- NO. WITH MECHANICAL PRECIPITATORS	25						25	
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26						26	
27	- NO. WITH COMBINATION PRECIPITATORS 2/	27						27	
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28	
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 2/	29	5.00	10.00	7.00	16.00	7.00	29	
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30						30	
31	TESTED, LOW - HIGH	31						31	
32	ESTIMATED, LOW - HIGH	32						32	
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 2/ DESIGN, LOW - HIGH	33						33	
34	TESTED, LOW - HIGH	34						34	
35	EST., LOW - HIGH	35						35	
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36						36	
37	TESTED, LOW - HIGH	37						37	
38	ESTIMATED, LOW - HIGH	38						38	
PLANT OPERATING DATA AND COST OF EQUIPMENT									
39	EST. TOTAL ANNUAL PLANT EMISSIONS 2/ PARTICULATE MATTER (1,000 TONS)	39				.01	.05	39	
40	SULFUR DIOXIDE (1,000 TONS)	40					.03	40	
41	NITROGEN OXIDES (1,000 TONS)	41	.55	.27	7.97	5.48	.27	41	
42	STACKS: - TOTAL NO.	42	1	1	8	4	2	42	
43	- HEIGHT (FEET), LOWEST - HIGHEST 2/	43	140.00	275.50	168.00	189.00	167.00	43	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 2/	44					250.00	44	
45	TOTAL ASH: COLLECTED (1,000 TONS) 2/	45						45	
46	SOLD (1,000 TONS) 2/	46						46	
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47	
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 2/	48						48	
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49						49	
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50						50	
51	ELECTROSTATIC PRECIPITATORS (\$1,000) 2/	51						51	
52	COMBINATION PRECIPITATORS (\$1,000) 2/	52						52	
53	DESULFURIZATION SYSTEMS (\$1,000)	53						53	
54	STACKS (\$1,000)	54	16.70	18.00	332.20	277.50	24.30	54	
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55						55	
56	REVENUES FROM SALE OF ASH (\$1,000)	56						56	
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						57	
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						58	
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 2/	59						59	
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60						60	
WATER QUALITY CONTROL DATA									
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & EXPL. IN FOOTNOTES) 1/	61	W	OW LOCAL RUNOFF	R	NORTH CANADIAN	M	R ARKANSAS	61
62	AVERAGE RATE OF WITHDRAWAL (CFPS)	62	.79	10.27		31.50	6.97	59.70	62
63	AVERAGE RATE OF DISCHARGE (CFPS)	63	.16	9.79		12.10	1.39	59.70	63
64	AVE. RATE OF CONSUMPTION (CFPS), CALCULATED - REPORTED 2/	64	.63	.48		19.40	5.58	.60	64
65	PEAK LOAD MONTH: SUMMER - WINTER 2/	65	JUL DEC	JUL DEC	JUL DEC	JUL DEC	JUL DEC	JUL DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66							66
67	AT OUTFALL, SUMMER - WINTER	67	92.00 85.00	96.00 58.00	101.00 72.00	87.00 73.00	108.00 61.00	67	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFPS): SUMMER - WINTER	68		22.60	148.00		1,320.00	68	
69		69		13.10	118.00		1,520.00	69	
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, CWB/	70						70	
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71						71	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	.20			90.15	6.19	72	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73						73	
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74	.50	2.00				74	
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	9.98 .90		29.50	13.88		75	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76	YES YES	YES	YES YES	YES	YES	76	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OTW/	77	ST	ST	ST	ST	ST	77	
78	RECEIVING WATER BODY	78						78	
79	POND DISCHARGE 2/	79						79	
80	BOILER BLOWDOWN - ASH SETTLING	80						80	
81	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	81						81	
82	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	82						82	
COOLING FACILITY DATA									
83	NO. OF UNITS AND CAPACITY (MM) USING 2/	83					2	40.00	83
84	ONCE THROUGH COOLING (FRESH)	84							84
85	ONCE THROUGH COOLING (SALINE)	85							85
86	COOLING POND(S)	86	1	73.50	2	55.00	4	509.30	86
87	COOLING TOWER(S)	87							87
88	COMBINATIONS 2/	88							88
89	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	89		1953	1950	1924	1950	1929	89
90	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 2/	90		17.00	15.00	13.00	19.00	22.50	90
91	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFPS)	91		134.00	141.20		1,314.80	583.60	91
92	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFPS)	92							92
CAPITAL COSTS OF COOLING FACILITIES									
93	ONCE THROUGH COOLING SYSTEMS (\$1,000)	93			179.40	2,117.00		69.50	93
94	COOLING PONDS (\$1,000)	94		740.00	66.40	1,926.00	4,125.60		94
ANNUAL COOLING WATER EXPENSES									
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95		15.90	1.00	18.50	26.80	33.80	95
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96		14.50		30.00	65.30		96
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES									
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97		7.20	1.00	14.00	10.20	.50	97
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98		.80	.40	23.20	2.30		98

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	OKLAHOMA GAS & ELECTRIC CO.	OKLAHOMA GAS AND ELECTRIC CO.	OMAHA PUBLIC POWER DIST.	OMAHA PUBLIC POWER DIST.	CITY OF GPELOUSAS	
2		2						
3	NAME OF PLANT	3	RIVERBANK	SEMINOLE	JONES STREET	NORTH OMAHA	CPELOUSAS #2	
4	UTILITY-PLANT CODE	4	356500-0800	356500-1100	357000-0100	357000-0200	358500-0200	
5	STATE	5	OKLAHOMA	OKLAHOMA	NEBRASKA	NEBRASKA	LOUISIANA	
6	COUNTY	6	MUSKOGEE	SEMINOLE	DOUGLAS	DOUGLAS	ST. LANDRY	
7	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	7						
8	PLANT CAPACITY (MW)	8	186	11	085	10	106	
9	ANNUAL GENERATION (MWH) 3/	9	1,113,000	567,00	165,00	644,70	38,50	
10	PLANT HEAT RATE (BTU/KWH) 3/	10	1,13,000	3,200,890	58,500	3,186,000	75,400	
11		11	10,588	9,904	17,127	9,849	13,760	
AIR QUALITY CONTROL DATA								
FUEL CONSUMPTION DATA (ANNUAL)								
12	COAL: CONSUMPTION (1,000 TONS)	12			18,66	607,70		
13	AVERAGE HEAT CONTENT (BTU/LB)	13			12,153	11,188		
14	AVERAGE SULFUR CONTENT (%)	14			3,32	2,04		
15	AVERAGE ASH CONTENT (%)	15			12,03	9,65		
16	AVERAGE MOISTURE CONTENT (%)	16			6,61	10,82		
17	OIL: CONSUMPTION (1,000 BARRELS)	17	1,05					
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	152,209					
19	AVERAGE SULFUR CONTENT (%)	19	1,70					
20	GAS: CONSUMPTION (1,000 MCF)	20	11,357,33	30,560,23	562,06	18,186,23	1,007,30	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,037	1,037	1,005	1,001	1,030	
PLANT EQUIPMENT DATA								
22	BOILERS: - TOTAL NO.	22	7	1	8	5		
23	- NO. OF WET BOTTOM	23						
24	- NO. WITH FLY ASH REINJECTION	24						
25	- NO. WITH MECHANICAL PRECIPITATORS	25			3			
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26				2		
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27				3		
28	- NO. WITH DESULFURIZATION SYSTEMS	28						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	7,00	20,00	6,00	25,00	25,00	
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30			40,00	25,00		
31	TESTED, LOW - HIGH	31			85,00			
32	ESTIMATED, LOW - HIGH	32						
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	33			85,00			
34	TESTED, LOW - HIGH	34				96,00	98,00	
35	EST., LOW - HIGH	35				96,00	96,10	
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36				96,00	98,00	
37	TESTED, LOW - HIGH	37						
38	ESTIMATED, LOW - HIGH	38						
PLANT OPERATING DATA AND COST OF EQUIPMENT								
39	EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	39						
40	SULFUR DIOXIDE (1,000 TONS)	40	.01		.82	1,72		
41	NITROGEN OXIDES (1,000 TONS)	41	2,22	5,96	1,21	24,30		
42	STACKS: - TOTAL NO.	42	3	2	5	9,02		
43	- HEIGHT (FEET), LOWEST - HIGHEST 7/	43	176,00	268,00	178,00	147,00	250,00	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 8/	44					200,00	
45	TOTAL ASH: COLLECTED (1,000 TONS) 9/	45						
46	SOLD (1,000 TONS) 10/	46						
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47			1,80	56,90		
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 11/	48				14,10		
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50			148,50	647,00		
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51				776,00		
52	COMBINATION PRECIPITATORS (\$1,000) 12/	52						
53	DESULFURIZATION SYSTEMS (\$1,000)	53						
54	STACKS (\$1,000)	54	187,10	121,00	210,90	494,90	26,00	
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55			18,10	77,64		
56	REVENUES FROM SALE OF ASH (\$1,000)	56						
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	59			18,11	77,64		
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60				1,42		
WATER QUALITY CONTROL DATA								
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, H & O EXPL. IN FOOTNOTES)	61	R ARKANSAS	R SOUTH CANADIAN	R MISSOURI	R MISSOURI	M	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	197,50	28,80	19,91	668,60		
63	AVERAGE RATE OF DISCHARGE (CFS)	63	197,50	15,10	19,91	668,60		
64	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	64	1,70	3,40				
65	PEAK LOAD MONTH: SUMMER - WINTER 15/	65	JUL	DEC	JUN	DEC		
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	86,00	51,00	82,00	42,00		
67	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): AT OUTFALL, SUMMER - WINTER	67	107,00	74,00	85,00	55,00		
68		68			358,00	59,210,00	59,210,00	
69		69			321,00	23,240,00	23,240,00	
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, DIS/	70						
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71						
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72						
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73	9,75	40,65	35,35	38,00		
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74			34,13			
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75						
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76		9,00				
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 16/	77	OT/SW	YES	PS	YES	PS	
78	RECEIVING WATER BODY	78	R ARKANSAS	ST	PS	PS	PS	
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	79						
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80				9,00	10,00	
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	81				50,00	100,00	
82		82				424,00		
COOLING FACILITY DATA								
83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	83	3	195,90	7	173,50	5	644,70
84	ONCE THROUGH COOLING (SALINE)	84						
85	COOLING PONDS (S)	85		1	567,00			
86	COOLING TOWER(S)	86						
87	COMBINATIONS 21/	87						
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1924	1956	1971	1917	1951	1954
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 22/	89	12,00	20,20	15,80	12,00	15,40	16,00
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90		252,60	707,20		412,30	17,50
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91		258,70			412,30	797,80
CAPITAL COSTS OF COOLING FACILITIES								
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92		1,007,70		1,023,00	4,595,40	
93	COOLING PONDS (\$1,000)	93			6,303,00			
94	COOLING TOWERS (\$1,000)	94				88,80		125,00
ANNUAL COOLING WATER EXPENSES								
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95		3,10	15,60	18,27	44,64	
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96			1,50			
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES								
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97		4,60	5,20	14,46	22,27	
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98		1,40	13,50	12,55	31,38	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	2	ORANGE & ROCKLAND UTIL. INC.	3	ORLANDO UTILITIES COMM.	4	ORLANDO UTILITIES COMM.	5	OTTER TAIL POWER CO.	6	OWENSBORO MUNICIPAL UTIL.	7
2	NAME OF PLANT	4	LOVETT	5	INDIAN RIVER	6	LAKE HIGHLAND	7	HOOT LAKE	8	SMITH	9
3	UTILITY-PLANT CODE	5	359000-0200	6	361000-0100	7	361000-0200	8	365500-1400	9	367000-0100	10
4	STATE	6	NEW YORK	7	FLORIDA	8	FLORIDA	9	MINNESOTA	10	KENTUCKY	11
5	COUNTY	7	ROCKLAND	8	BREVARD	9	ORANGE	10	OTTER TAIL	11	OWENSBORO	
6	AIR QUALITY CONTROL REGION NO. ^{1/2} - WATER RESOURCE REGION NO. ^{2/2}	8	043	9	048	10	048	11	132	12	077	
7	PLANT CAPACITY (MM)	9	495.12	10	258.50	11	96.00	12	136.90	13	151.00	
8	ANNUAL GENERATION (MMH) ^{3/2}	10	2,727,800	11	1,356,600	12	232,600	13	798,700	14	841,400	
9	PLANT HEAT RATE (BTU/KWH) ^{4/2}	11	10,615	12	10,305	13	14,197	14	12,003	15	9,378	
AIR QUALITY CONTROL DATA												
FUEL CONSUMPTION DATA (ANNUAL)												
12	COAL: CONSUMPTION (1,000 TONS)	13	5.10	14		15		16	673.42	17	370.00	18
13	AVERAGE HEAT CONTENT (BTU/LB)	14	13,220	15		16		17	7,097	18	10,663	19
14	AVERAGE SULFUR CONTENT (%)	15	1.25	16		17		18	.96	19	3.25	20
15	AVERAGE ASH CONTENT (%)	16	9.50	17		18		19	6.25	20	11.95	21
16	AVERAGE MOISTURE CONTENT (%)	17	5.00	18		19		20	34.77	21	12.71	22
17	OIL: CONSUMPTION (1,000 BARRELS)	18	3,025.52	19	805.62	20	49.35	21	3.01	22	.65	23
18	AVERAGE HEAT CONTENT (BTU/GAL)	19	146,050	20	148,794	21	148,800	22	140,000	23		24
19	AVERAGE SULFUR CONTENT (%)	20	.83	21	1.83	22	1.79	23	.35	24		25
20	GAS: CONSUMPTION (1,000 MCF)	21	9,929.49	22	8,695.79	23	2,909.30	24		25		26
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	22	1,033	23	1,028	24	1,028	25		26		27
PLANT EQUIPMENT DATA												
22	BOILERS: - TOTAL NO.	23	5	24	2	25	4	26	3	27	1	28
23	- NO. OF WET BOTTOM	24		25		26		27		28		29
24	- NO. WITH FLY ASH REINJECTION	25		26		27		28		29		30
25	- NO. WITH MECHANICAL PRECIPITATORS	26	3	27		28		29	3	30		31
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	27	2	28		29		30		31	1	32
27	- NO. WITH COMBINATION PRECIPITATORS ^{5/2}	28		29		30		31		32		33
28	- NO. WITH DESULFURIZATION SYSTEMS	29		30		31		32		33		34
29	- EXCESS AIR USED (%)	30	20.00	31	25.00	32	8.75	33	12.00	34	14.00	35
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	31	85.00	32		33		34		35		36
31	TESTED, LOW - HIGH	32		33		34		35		36		37
32	ESTIMATED, LOW - HIGH	33	85.00	34		35		36		37		38
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	34	95.00	35		36		37		38		39
34	TESTED, LOW - HIGH	35		36		37		38		39		40
35	EST., LOW - HIGH	36	92.00	37		38		39		40		41
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	37		38		39		40		41		42
37	TESTED, LOW - HIGH	38		39		40		41		42		43
38	ESTIMATED, LOW - HIGH	39		40		41		42		43		44
PLANT OPERATING DATA AND COST OF EQUIPMENT												
39	EST. TOTAL ANNUAL PLANT EMISSIONS: ^{2/2} PARTICULATE MATTER (1,000 TONS)	40	.10	41	.14	42	.01	43	14.98	44	.15	45
40	SULFUR DIOXIDE (1,000 TONS)	41	8.55	42	4.95	43	.30	44	12.67	45	23.57	46
41	NITROGEN OXIDES (1,000 TONS)	42	8.65	43	3.47	44	.68	45	6.04	46	10.18	47
42	STACKS: - TOTAL NO.	43		44		45		46		47		48
43	- HEIGHT (FEET), LOWEST - HIGHEST ^{3/2}	44	175.00	45	235.00	46	300.00	47	101.50	48	133.00	49
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) ^{4/2}	45		46		47		48		49		50
45	TOTAL ASH: COLLECTED (1,000 TONS) ^{5/2}	46		47		48		49		50		51
46	SOLD (1,000 TONS) ^{6/2}	47		48		49		50		51		52
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	48		49		50		51		52		53
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) ^{7/2}	49		50		51		52		53		54
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	50	139.12	51		52		53	142.70	54		55
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	51	634.92	52		53		54		55	610.00	56
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	52		53		54		55		56		57
52	COMBINATION PRECIPITATORS (\$1,000) ^{8/2}	53		54		55		56		57		58
53	DESULFURIZATION SYSTEMS (\$1,000)	54		55		56		57		58		59
54	STACKS (\$1,000)	55	278.78	56	140.00	57	1,060.00	58	133.70	59	53.80	60
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	56		57		58		59	30.70	60		61
56	REVENUES FROM SALE OF ASH (\$1,000)	57		58		59		60	13.20	61		62
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	58		59		60		61		62		63
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	59		60		61		62		63		64
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) ^{9/2}	60		61		62		63	30.70	64	53.80	65
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	61		62		63		64	13.20	65		66
WATER QUALITY CONTROL DATA												
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	62	R HUDSON	63	R INDIAN	64	O SPRINGS/RUNOFF	65	R OTTER TAIL	66	R OHIO	67
62	AVERAGE RATE OF WITHDRAWAL (CFD)	63	735.00	64	520.00	65	106.20	66	107.85	67	143.70	68
63	AVERAGE RATE OF DISCHARGE (CFD)	64	735.00	65	520.00	66	106.20	67	107.81	68	143.70	69
64	AVERAGE RATE OF CONSUMPTION (CFD), CALCULATED - REPORTED ^{10/2}	65	6.32	66	4.47	67	.91	68	.04	69	1.24	70
65	PEAK LOAD MONTH: SUMMER - WINTER	66	JUL	67	AUG	68	FEB	69	OCT	70	JUN	71
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	67	91.00	68	80.00	69	92.00	70	59.00	71	85.00	72
67	AT OUTFALL, SUMMER - WINTER	68	101.00	69	90.00	70	109.00	71	80.00	72	115.00	73
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFD): SUMMER	69	35,700.00	70		71		72	127.46	73	56,000.00	74
69	- WINTER	70	35,700.00	71		72		73	78.71	74	117,000.00	75
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, DM	71		72		73		74		75		76
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS)	72	.86	73	.17	74	1.45	75	.13	76	.03	77
72	CAUSTIC SODA (TONS)	73	.27	74		75	.07	76	.73	77	.02	78
73	LIME (TONS)	74		75	4.40	76	4.60	77		78		79
74	ALUM (TONS)	75		76		77	.60	78		79		80
75	CHLORINE (TONS)	76		77		78		79		80		81
76	OTHER (YES/NO)	77	YES	78	YES	79	YES	80	YES	81	YES	82
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT ^{11/2}	78	OT	79	ST	80	PS	81	ST	82		83
78	POND DISCHARGE: ^{12/2} PH, SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79	R HUDSON	80		81		82		83		84
79	VOLUME (1,000 CU.FT./YR), BOILER BLOWDOWN - ASH SETTLING	80	6.70	81		82		83	10.80	84	10.00	85
80		81	12.00	82		83		84	150.00	85	25.00	86
81		82		83		84		85	4,720.00	86	371.00	87
82		83		84		85		86		87	8,670.00	88
COOLING FACILITY DATA												
83	NO. OF UNITS AND CAPACITY (MM) USING: ^{13/2} ONCE THROUGH COOLING (FRESH)	84	5	85	2	86	3	87	103.75	88	1	89
84	ONCE THROUGH COOLING (SALINE)	85	481.82	86	258.50	87		88		89	151.00	90
85	COOLING POND(S)	86		87		88		89		90		91
86	COOLING TOWER(S)	87		88		89		90		91		92
87	COMBINATIONS ^{14/2}	88	1949	89	1960	90	1949	91	1956	92	1948	93
88	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST ^{15/2}	89	12.00	90	15.50	91	10.88	92	15.70	93	22.00	94
89	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFD)	90	705.00	91	543.00	92	180.50	93	175.80	94	181.00	95
90	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFD)	91	734.00	92	543.00	93	180.50	94	180.50	95	185.00	96
CAPITAL COSTS OF COOLING FACILITIES												
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	93	2,025.18	94	1,980.00	95	2,250.00	96	911.00	97	768.00	98
93	COOLING PONDS (\$1,000)	94		95		96		97		98		99
94	COOLING TOWERS (\$1,000)	95		96		97		98		99		100
ANNUAL COOLING WATER EXPENSES												
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	96		97	42.10	98	57.50	99	1.70	100	30.00	101
96	COST OF CHEMICAL ADDITIVES (\$1,000)	97		98	8.19	99	2.15	100	.17	101	.90	102
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES												
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	98	56.39	99	10.50	100	3.00	101	36.30	102	12.00	103
98	COST OF CHEMICAL ADDITIVES (\$1,000)	99	2.97	100	1.17	101	1.72	102	5.92	103	1.70	104

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	OWENSBORO MUNICIPAL UTIL.	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.	1
2	NAME OF PLANT	2	OWENSBORO #1	AVON	CONTRA COSTA	HUMBOLDT BAY	HUNTERS POINT	2
3	UTILITY-PLANT CODE	3	367000-0200	370000-0300	370000-1400	370000-3100	370000-3200	3
4	STATE	4	KENTUCKY	CALIFORNIA	CALIFORNIA	CALIFORNIA	CALIFORNIA	4
5	COUNTY	5	DAVIESS	CONTRA COSTA	CONTRA COSTA	HUMBOLDT	SAN FRANCISCO	5
6	AIR QUALITY CONTROL REGION NO. 1 - WATER RESOURCE REGION NO. 2	6	077	05	030	18	030	6
7	PLANT CAPACITY (MM)	7	52.50	40.00	1,276.10	162.40	406.40	7
8	ANNUAL GENERATION (MMH) 3/	8	139,900	343,300	3,047,600	200,000	1,370,400	8
9	PLANT HEAT RATE (BTU/KWH) 3/	9	15,560	12,352	10,241	14,106	11,841	9
AIR QUALITY CONTROL DATA								
FUEL CONSUMPTION DATA (ANNUAL)								
12	COAL: CONSUMPTION (1,000 TONS)	12	102.20					12
13	AVERAGE HEAT CONTENT (BTU/LB)	13	10,650					13
14	AVERAGE SULFUR CONTENT (%)	14	3.19					14
15	AVERAGE ASH CONTENT (%)	15	11.98					15
16	AVERAGE MOISTURE CONTENT (%)	16	12.53					16
17	OIL: CONSUMPTION (1,000 BARRELS)	17		109.44	51.63	.91	56.63	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18		156,147	152,500	152,500	151,637	18
19	AVERAGE SULFUR CONTENT (%)	19		1.67	1.06	1.10	.71	19
20	GAS: CONSUMPTION (1,000 MCF)	20		4,856.67	31,874.59	2,723.63	15,130.48	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21		1,122	1,051	1,032	1,050	21
PLANT EQUIPMENT DATA								
22	BOILERS: - TOTAL NO.	22	4	3	10	3	7	22
23	- NO. OF WET BOTTOM	23						23
24	- NO. WITH FLY ASH REINJECTION	24						24
25	- NO. WITH MECHANICAL PRECIPITATORS	25						25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26						26
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27	4					27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	20.00	22.00	10.00	5.10	15.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30						30
31	TESTED, LOW - HIGH	31						31
32	ESTIMATED, LOW - HIGH	32						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/ DESIGN, LOW - HIGH	33	98.00	98.50				33
34	TESTED, LOW - HIGH	34						34
35	EST., LOW - HIGH	35	94.00	98.50				35
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36						36
37	TESTED, LOW - HIGH	37						37
38	ESTIMATED, LOW - HIGH	38						38
PLANT OPERATING DATA AND COST OF EQUIPMENT								
39	EST. TOTAL ANNUAL PLANT EMISSIONS 7/ PARTICULATE MATTER (1,000 TONS)	39	.62	.02	.01		.01	39
40	SULFUR DIOXIDE (1,000 TONS)	40	6.39	.61	.18		.13	40
41	NITROGEN OXIDES (1,000 TONS)	41	.92	1.19	6.33	.53	3.08	41
42	STACKS: - TOTAL NO.	42	2	3	9	3	5	42
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	43	152.00	200.00	200.00	450.00	150.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	44						44
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	45	12.00					45
46	SOLO (1,000 TONS) 11/	46						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	48						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	49						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50						50
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51						51
52	COMBINATION PRECIPITATORS (\$1,000) 4/	52	249.00					52
53	DESULFURIZATION SYSTEMS (\$1,000)	53						53
54	STACKS (\$1,000)	54	103.10	558.00	4,928.00	498.00	1,597.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	23.40					55
56	REVENUES FROM SALE OF ASH (\$1,000)	56						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						58
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	59	23.40					59
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60						60
WATER QUALITY CONTROL DATA								
61	COOLING WATER: SOURCE (CFS) 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82	61	R OHIO	B SUISON	R SAN JOAQUIN	B HUMBOLDT	B SAN FRANCISCO	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	82.50		1,526.00	223.00	554.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	82.50		1,526.00	223.00	554.00	63
64	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 16/	64	.71		13.12	1.92	4.76	64
65	PEAK LOAD MONTH: 17/	65	JUN	DEC	AUG	DEC	AUG	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.) AT DIVERSION, SUMMER - WINTER	66	84.00	58.00	81.00	53.00	55.00	66
67	AT OUTFALL, SUMMER - WINTER	67	104.00	70.00	98.00	65.00	70.00	67
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	68	56,000.00		125,000.00	65.00	96.00	68
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, CW	69	117,000.00		125,000.00			69
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70						70
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71	.32	1.50		1.75	.15	71
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	72	.10	1.30		.45	.12	72
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	73		77.50		2.70		73
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74						74
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75			10.00		65.00	75
76	SEWAGE DISPOSAL: METHOD (PS, ST, SW, OTM) RECEIVING WATER BODY	76	PS	ST	ST	ST	PS	76
77	POND DISCHARGE: 18/	77						77
78	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	78						78
79	VOLUME (1,000 CU.FT.), BOILER BLOWDOWN - ASH SETTLING	79						79
80	BOILER BLOWDOWN - ASH SETTLING	80						80
81		81						81
82		82						82
COOLING FACILITY DATA								
83	NO. OF UNITS AND CAPACITY (GAL) USING: ONCE THROUGH COOLING (FRESH)	83	4	52.50				83
84	ONCE THROUGH COOLING (SALINE)	84						84
85	COOLING POND(S)	85			7	1,276.00	3	162.40
86	COOLING TOWER(S)	86			1	40.00	4	406.50
87	COMBINATIONS 21/	87						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1939	1954	1940	1951	1964	1955
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 22/	89	15.00	15.00	16.00	25.00	22.90	15.50
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	93.90	43.60	1,434.20	224.00	709.00	582.00
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	120.00					
CAPITAL COSTS OF COOLING FACILITIES								
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	296.00		3,391.00	1,539.00	2,365.00	92
93	COOLING PONDS (\$1,000)	93						93
94	COOLING TOWERS (\$1,000)	94		160.00				94
ANNUAL COOLING WATER EXPENSES								
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	15.00					95
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96		.20	2.20		6.10	96
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES								
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	25.00					97
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	1.00	14.70	1.50	.10	1.10	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	14	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.	17
2	NAME OF PLANT	15	KERN	MARTINEZ	MORRO BAY	MOSS LANDING	OLEUM	18
3	UTILITY-PLANT CODE	16	370000-3600	370000-4100	370000-4400	370000-4500	370000-4900	19
4	STATE	17	CALIFORNIA	CALIFORNIA	CALIFORNIA	CALIFORNIA	CALIFORNIA	20
5	COUNTY	18	KERN	CONTRA COSTA	SAN LUIS OBISPO	MONTEREY	CONTRA COSTA	21
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	19	031 18	030 18	032 18	025 18	030 18	22
7	PLANT CAPACITY (MW)	20	165.50	40.00	1,056.30	2,174.70	80.00	23
8	ANNUAL GENERATION (MMH) 3/	21	1,200	351,500	4,099,600	8,840,600	190,700	24
9	PLANT HEAT RATE (BTU/KWH) 3/	22	11,470	11,470	9,570	9,247	10,933	25
AIR QUALITY CONTROL DATA								
FUEL CONSUMPTION DATA (ANNUAL)								
26	COAL: CONSUMPTION (1,000 TONS)	23						26
27	AVERAGE HEAT CONTENT (BTU/LB)	24						27
28	AVERAGE SULFUR CONTENT (%)	25						28
29	AVERAGE ASH CONTENT (%)	26						29
30	AVERAGE MOISTURE CONTENT (%)	27						30
31	OIL: CONSUMPTION (1,000 BARRELS)	28		256.30	222.45	528.19		31
32	AVERAGE HEAT CONTENT (BTU/GAL)	29		155,686	150,634	150,330		32
33	AVERAGE SULFUR CONTENT (%)	30		1.52	.42	.48		33
34	AVERAGE HEAT RATE (BTU/KWH) 3/	31		62.94	34,736.61	72,354.19	5,263.41	34
35	GAS: CONSUMPTION (1,000 MCF)	32		1,092	1,009	1,090	1,085	35
36	AVERAGE HEAT CONTENT (BTU/CU.FT.)	33						36
PLANT EQUIPMENT DATA								
37	BOILERS: - TOTAL NO.	34	4	3	4	10	6	37
38	- NO. OF WET BOTTOM	35						38
39	- NO. WITH FLY ASH REINJECTION	36						39
40	- NO. WITH MECHANICAL PRECIPITATORS	37						40
41	- NO. WITH ELECTROSTATIC PRECIPITATORS	38						41
42	- NO. WITH COMBINATION PRECIPITATORS 4/	39						42
43	- NO. WITH DESULFURIZATION SYSTEMS	40						43
44	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	41	15.00	10.00	10.00	15.00	7.00	11.00
45	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, TESTED, ESTIMATED, LOW - HIGH	42						
46	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, TESTED, EST., LOW - HIGH	43						
47	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, TESTED, ESTIMATED, LOW - HIGH	44						
PLANT OPERATING DATA AND COST OF EQUIPMENT								
48	EST. TOTAL ANNUAL PLANT EMISSIONS 2/	45						
49	PARTICULATE MATTER (1,000 TONS)	46		.04	.04	.09		
50	SULFUR DIOXIDE (1,000 TONS)	47		1.31	.31	.85		
51	NITROGEN OXIDES (1,000 TONS)	48		1.48	7.26	15.27	1.03	
52	STACKS: - TOTAL NO.	49	4	3	3	10	6	
53	- HEIGHT (FEET), LOWEST - HIGHEST 7/	50						
54	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 8/	51	140.00	200.00	450.00	224.50	500.00	250.00
55	TOTAL ASH: COLLECTED (1,000 TONS) 9/	52						
56	SOLD (1,000 TONS) 10/	53						
57	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	54						
58	EQUIVALENT OF ASH COLLECTED (1,000 TONS) 11/	55						
59	ELEMENTAL AND EQUIVALENT OF ASH SOLD (1,000 TONS)	56						
60	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	57						
61	ELECTROSTATIC PRECIPITATORS (\$1,000)	58						
62	COMBINATION PRECIPITATORS (\$1,000) 12/	59						
63	DESULFURIZATION SYSTEMS (\$1,000)	60						
64	STACKS (\$1,000)	61	684.00	162.00	4,108.00	8,060.00	432.00	
65	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	62						
66	REVENUES FROM SALE OF ASH (\$1,000)	63						
67	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	64						
68	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	65						
69	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	66						
70	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	67						
WATER QUALITY CONTROL DATA								
71	COOLING WATER: SOURCE (CODES: R, L, B, C, W, H & O EXPL. III FOOTNOTES)	68	W	8	SUISUN	8	MORRO	8
72	AVERAGE RATE OF WITHDRAWAL (CFS)	69					724.00	8
73	AVERAGE RATE OF DISCHARGE (CFS)	70					724.00	MONTEREY
74	AVF. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	71					6.23	13.70
75	PEAK LOAD MONTH: SUMMER - WINTER 15/	72					AUG	AUG
76	MAX. FLOW DURING PEAK MONTH (CFG. F. 1) AT OVERFLOW, SUMMER - WINTER	73					64.00	60.00
77	AT OUTFALL, SUMMER - WINTER	74					78.00	56.00
78	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFG. F. 2) SUMMER - WINTER	75						83.00
79	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C 16/	76						70.00
80	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - ROILER MAKEUP	77						
81	CAUSTIC SODA (TONS), COOLING WATER - ROILER MAKEUP	78	.03					
82	LIME (TONS), COOLING WATER - ROILER MAKEUP	79	.05					
83	ALUM (TONS), COOLING WATER - ROILER MAKEUP	80						
84	CHLORINE (TONS), COOLING WATER - ROILER MAKEUP	81	.50					
85	OTHER (YES/NO), COOLING WATER - ROILER MAKEUP	82	YES					
86	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 17/	83	ST					
87	RECEIVING WATER BODY	84						
88	POND DISCHARGE 18/	85						
89	BOILER BLOWDOWN - ASH SETTLING	86						
90	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	87						
91	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	88						
92	- ASH SETTLING	89						
COOLING FACILITY DATA								
93	NO. OF UNITS AND CAPACITY (MW) USING 19/	90				4	1,056.20	7
94	ONCE THROUGH COOLING (FRESH)	91						2
95	ONCE THROUGH COOLING (SALINE)	92						80.00
96	COOLING PONDS (S)	93						
97	COOLING TOWERS (S)	94	2	165.50	1	40.00		
98	COMBINATIONS 20/	95						
99	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	96	1947	1948	1941	1955	1963	1950
100	DESIGN: TEMPER. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 21/	97					18.10	1968
101	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	98		179.00	43.60		1,118.00	23.80
102	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	99					1,120.00	1,849.00
CAPITAL COSTS OF COOLING FACILITIES								
103	ONCE THROUGH COOLING SYSTEMS (\$1,000)	100					5,986.00	12,913.00
104	COOLING PONDS (\$1,000)	101						449.00
105	COOLING TOWERS (\$1,000)	102		1,114.00	165.00			
ANNUAL COOLING WATER EXPENSES								
106	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	103						
107	COST OF CHEMICAL ADDITIVES (\$1,000)	104		.20			.70	4.00
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES								
108	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	105						
109	COST OF CHEMICAL ADDITIVES (\$1,000)	106		.20	18.00	2.70	39.00	20.00

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.	PACIFIC GAS & ELECTRIC CO.	PACIFIC POWER & LIGHT CO.	PACIFIC POWER & LIGHT CO.
2	NAME OF PLANT	2	PITTSBURG	POTREFO	GEYSERS	JOHNSTON	LINGCLN
3	UTILITY-PLANT CODE	3	370000-5700	370000-5900	370000-7200	370500-1200	370500-2300
4	STATE	4	CALIFORNIA	CALIFORNIA	CALIFORNIA	WYOMING	OREGON
5	COUNTY	5	CONTRA COSTA	SAN FRANCISCO	SONOMA	CONVERSE	MULTNOMAH
6	AIR QUALITY CONTROL REGION NO. 1 - WATER RESOURCE REGION NO. 2	6	030 18	030 18	030 18	241 10	193 17
7	PLANT CAPACITY (MWH)	7	1,277.80	317.90	203.00	456.70	35.50
8	ANNUAL GENERATION (MWH) 2	8	4,652,300	1,438,500	547,800	2,374,000	400
9	PLANT HEAT RATE (BTU/KWH) 2	9	10,136	10,945		10,624	
AIR QUALITY CONTROL DATA							
FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)	12				1,715.30	
13	AVERAGE HEAT CONTENT (BTU/LB)	13				7,348	
14	AVERAGE SULFUR CONTENT (%)	14				.62	
15	AVERAGE ASH CONTENT (%)	15				9.36	
16	AVERAGE MOISTURE CONTENT (%)	16				29.38	
17	OIL: CONSUMPTION (1,000 BARRELS)	17	431.06	47.31		8.00	123.70
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	151,000	151,743		144,272	145,636
19	AVERAGE SULFUR CONTENT (%)	19	.40	.64		.30	1.12
20	GAS: CONSUMPTION (1,000 MCF)	20	42,072.33	14,733.34			1,136.90
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,054	1,050			1,052
PLANT EQUIPMENT DATA							
22	BOILERS: - TOTAL NO.	22	6	4		3	7
23	- NO. OF WET BOTTOM	23					
24	- NO. WITH FLY ASH REINJECTION	24					
25	- NO. WITH MECHANICAL PRECIPITATORS	25				3	
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26					
27	- NO. WITH COMBINATION PRECIPITATORS 2	27					
28	- NO. WITH DESULFURIZATION SYSTEMS	28					
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 2	29	8.00 12.00	8.00 15.00		20.00	10.00 15.00
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30				82.00	20.00
31	TESTED, LOW - HIGH	31				82.00	
32	ESTIMATED, LOW - HIGH	32				75.00	80.00
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 2: DESIGN, LOW - HIGH	33					
34	TESTED, LOW - HIGH	34					
35	EST., LOW - HIGH	35					
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36					
37	TESTED, LOW - HIGH	37					
38	ESTIMATED, LOW - HIGH	38					
PLANT OPERATING DATA AND COST OF EQUIPMENT							
39	EST. TOTAL ANNUAL PLANT EMISSIONS 2: PARTICULATE MATTER (1,000 TONS)	39	.07	.01		29.99	.02
40	SULFUR DIOXIDE (1,000 TONS)	40	.58	.10		20.85	.46
41	NITROGEN OXIDES (1,000 TONS)	41	9.15	2.98		15.46	.49
42	STACKS: - TOTAL NO.	42	6	2		3	6
43	- HEIGHT (FEET), LOWEST - HIGHEST 2	43	212.00 450.00	200.00 300.00		250.00	69.00 88.00
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 2	44					
45	TOTAL ASH: COLLECTED (1,000 TONS) 2	45				123.70	
46	SOLD (1,000 TONS) 2	46				5.70	
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47					
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 2	48					
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49					
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50				344.00	
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51					
52	COMBINATION PRECIPITATORS (\$1,000) 4	52					
53	DESULFURIZATION SYSTEMS (\$1,000)	53					
54	STACKS (\$1,000)	54	4,106.00	795.00		391.00	41.40
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55				67.10	
56	REVENUES FROM SALE OF ASH (\$1,000)	56				17.80	
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57					
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58					
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 2	59				95.50	68.20
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60				17.80	
WATER QUALITY CONTROL DATA							
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	8 SUISUN	8 SAN FRANCISCO	W	R NORTH PLATTE	R WILLAMETTE
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	1,058.00	564.00		291.00	57.40
63	AVERAGE RATE OF DISCHARGE (CFS)	63	1,058.00	564.00		290.80	57.40
64	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 2	64	9.10	4.85		2.50	3.80
65	PEAK LOAD MONTH: AUG	65	DEC	DEC		JUL	DEC
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER 2	66	82.00 66.00	69.00 55.00		72.00 56.00	76.00 41.00
67	AT OUTFALL, SUMMER - WINTER	67	97.00 80.00	87.00 73.00		110.00 87.00	83.00 54.00
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68	170,000.00			2,258.00	10,800.00
69	- WINTER	69	170,000.00			973.00	101,780.00
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, CW 2	70					
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71					
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	1.40	.76		.13	2.56
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73	1.14	.46		.09	8.75
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74	32.34				
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	14.35	32.00		24.00	6.78
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76	YES	YES	YES	YES	YES
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 2	77	PS	PS	ST	ST	PS
78	RECEIVING WATER BODY	78					
79	POND DISCHARGE 2	79					
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80				8.70	
81	BOILER BLOWDOWN - ASH SETTLING	81				10.00	
82	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	82					
COOLING FACILITY DATA							
83	NO. OF UNITS AND CAPACITY (MWH) USING: ONCE THROUGH COOLING (FRESH)	83	6 1,278.00	3 317.90		3 456.70	3 35.50
84	ONCE THROUGH COOLING (SALINE)	84					
85	COOLING PONDS (S)	85					
86	COOLING TOWER(S)	86					
87	COMBINATIONS 2	87			6 203.00		
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1954 1961	1931 1964	1959 1971	1959 1964	1919 1930
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 2	89	15.00 17.50	15.00	38.00 40.40	27.30 32.30	9.50 13.50
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	1,582.80	485.00		318.00	180.20
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	474.40	323.60		318.00	180.20
CAPITAL COSTS OF COOLING FACILITIES							
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	3,342.00	1,683.00		3,232.00	322.00
93	COOLING PONDS (\$1,000)	93					
94	COOLING TOWERS (\$1,000)	94			3,591.00		
ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95				46.00	8.30
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	2.50	7.00		5.60	
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97				23.70	5.40
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	5.40	.40		5.40	5.80

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	PASADENA LIGHT & POWER DEPT.	1	PASADENA LIGHT & POWER DEPT.	1	PENNSYLVANIA ELECTRIC CO.	1	PENNSYLVANIA ELECTRIC CO.	1	PENNSYLVANIA ELECTRIC CO.	1	
2	NAME OF PLANT	2	BROADWAY	2	GLENARM	2	FRONT STREET	2	HOMER CITY	2	KEYSTONE	2	
3	UTILITY-PLANT CODE	3	374500-0100	3	374500-0200	3	379500-0300	3	379500-0350	3	379500-0400	3	
4	STATE	4	CALIFORNIA	4	CALIFORNIA	4	PENNSYLVANIA	4	PENNSYLVANIA	4	PENNSYLVANIA	4	
5	COUNTY	5	LOS ANGELES	5	LOS ANGELES	5	ERIE	5	INDIANA	5	ARMSTRONG	5	
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	024 18	6	024 18	6	178 04	6	197 05	6	197 05	6	
7	PLANT CAPACITY (MW)	7	171.00	7	65.25	7	118.80	7	1,320.00	7	1,684.00	7	
8	ANNUAL GENERATION (MWH) 3/	8	624,300	8	69,600	8	536,100	8	4,245,400	8	8,149,200	8	
9	PLANT HEAT RATE (BTU/KWH) 3/	9	11,272	9	15,065	9	12,508	9	10,190	9	9,875	9	
10		10		10		10		10		10		10	
11		11		11		11		11		11		11	
AIR QUALITY CONTROL DATA													
FUEL CONSUMPTION DATA (ANNUAL)													
12	COAL: CONSUMPTION (1,000 TONS)	12		12		12	316.80	12	1,811.90	12	3,331.90	12	
13	AVERAGE HEAT CONTENT (BTU/LB)	13		13		13	12,143	13	11,659	13	11,952	13	
14	AVERAGE SULFUR CONTENT (%)	14		14		14	3.90	14	2.10	14	2.23	14	
15	AVERAGE ASH CONTENT (%)	15		15		15	12.40	15	20.10	15	18.53	15	
16	AVERAGE MOISTURE CONTENT (%)	16		16		16	4.80	16	4.10	16	2.76	16	
17	DIL: CONSUMPTION (1,000 BARRELS)	17	723.60	17	8.90	17	13.77	17	11.35	17	137.67	17	
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	150,500	18	150,500	18	138,800	18	138,800	18	138,800	18	
19	AVERAGE SULFUR CONTENT (%)	19	.50	19	.50	19	.20	19	.20	19	.20	19	
20	GAS: CONSUMPTION (1,000 MCF)	20	2,357.40	20	1,160.80	20		20		20		20	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,060	21	1,060	21		21		21		21	
PLANT EQUIPMENT DATA													
22	BOILERS: - TOTAL NO.	22	3	22	4	22	4	22	2	22	2	22	
23	- NO. OF WET BOTTOM	23		23		23		23		23		23	
24	- NO. WITH FLY ASH REINJECTION	24		24		24		24		24		24	
25	- NO. WITH MECHANICAL PRECIPITATORS	25	3	25	4	25		25		25		25	
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26		26		26	4	26	2	26	2	26	
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27		27		27		27		27		27	
28	- NO. WITH DESULFURIZATION SYSTEMS	28		28		28		28		28		28	
29	- EXCESS AIR USED (%) LOWEST BOILER - HIGHEST BOILER 5/	29	8.00 10.00	29	12.00 15.00	29	15.00 15.50	29	20.00	29	20.00	29	
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30	92.00 94.00	30	94.00	30		30		30		30	
31	TESTED, LOW - HIGH	31		31		31		31		31		31	
32	ESTIMATED, LOW - HIGH	32	37.00 50.00	32	50.00	32		32		32		32	
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/:	33		33		33		33	99.50	33	99.50	33	
34	DESIGN, LOW - HIGH	34		34		34		34		34		34	
35	TESTED, LOW - HIGH	35		35		35	80.00 95.00	35	94.50	35	99.50	35	
36	EST., LOW - HIGH	36		36		36		36		36		36	
37	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	37		37		37		37		37		37	
38	TESTED, LOW - HIGH	38		38		38		38		38		38	
39	EST., LOW - HIGH	39		39		39		39		39		39	
PLANT OPERATING DATA AND COST OF EQUIPMENT													
39	EST. TOTAL ANNUAL PLANT EMISSIONS 7/:	39		39	.07	39	3.11	39	17.26	39	2.01	39	
40	PARTICULATE MATTER (1,000 TONS)	40		40	1.22	40	25.59	40	75.66	40	145.72	40	
41	SULFUR DIOXIDE (1,000 TONS)	41		41	2.06	41	.25	41	3.04	41	16.77	41	
42	NITROGEN OXIDES (1,000 TONS)	42		42		42	4	42	2	42	2	42	
43	STACKS: - TOTAL NO.	43	120.00	43	140.00	43	81.00 86.00	43	135.00 200.00	43	800.00	43	801.00
44	- HEIGHT (FEET), LOWEST - HIGHEST 8/	44		44		44		44		44		44	
45	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	45		45		45		45		45		45	
46	TOTAL ASH: COLLECTED (1,000 TONS) 10/	46		46		46	39.30	46	361.80	46	584.20	46	
47	SOLO (1,000 TONS) 11/	47		47		47		47		47	65.50	47	
48	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	48		48		48		48		48		48	
49	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	49		49		49		49		49		49	
50	ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	50		50		50		50		50		50	
51	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	51	221.00	51	140.00	51		51		51		51	
52	ELECTROSTATIC PRECIPITATORS (\$1,000)	52		52		52	431.20	52	1,882.00	52	4,531.00	52	
53	COMBINATION PRECIPITATORS (\$1,000) 4/	53		53		53		53		53		53	
54	DESULFURIZATION SYSTEMS (\$1,000)	54		54		54		54		54		54	
55	STACKS (\$1,000)	55	105.70	55	12.00	55	51.88	55	2,372.00	55	2,622.00	55	
56	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	56		56		56	90.30	56	342.50	56	697.00	56	
57	REVENUES FROM SALE OF ASH (\$1,000)	57		57		57		57		57	65.80	57	
58	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	58		58		58		58		58		58	
59	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	59		59		59		59		59		59	
60	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	60		60		60	142.00	60	368.30	60	729.50	60	
61	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	61		61		61		61		61	65.80	61	
WATER QUALITY CONTROL DATA													
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M, A, E, L, I, H, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z)	61		61		61		61		61		61	
62	AVERAGE RATE OF WITHDRAWAL (CFPS)	62	2.03	62	.28	62	223.00	62	15.40	62	18.20	62	
63	AVERAGE RATE OF DISCHARGE (CFPS)	63	.41	63	.06	63	223.00	63	6.60	63	7.30	63	
64	AVERAGE RATE OF CONSUMPTION (CFPS), CALCULATED - REPORTED 14/	64	1.62	64	.22	64	1.92	64	8.80	64	10.90	64	
65	PEAK LOAD MONTH: 15/	65		65		65		65		65		65	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT OVERFLOW, SUMMER - WINTER	66		66		66	79.00 52.00	66	68.00 35.60	66	SEP OEC	66	
67	AT OUTFALL, SUMMER - WINTER	67		67		67	100.00 82.00	67	110.00 95.00	67		67	
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFPS): SUMMER	68		68		68		68	50.00	68	255.00	68	
69	- WINTER	69		69		69		69	300.00	69	1,090.00	69	
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D, 16/	70		70		70		70		70		70	
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71	6.57	71	.60	71	.45	71	.03	71	.67	71	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72		72	3.44	72	.23	72	462.08	72	992.00	72	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73		73		73		73	1,584.00	73	1,075.00	73	
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74		74		74	28.23	74	536.00	74	15.80	74	
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	17.50	75	3.00	75	1.93	75	10.00	75	38.60	75	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76	YES	76	YES	76	YES	76	YES	76	YES	76	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 17/	77	PS	77	PS	77	PS	77	OT	77	ST	77	
78	POND DISCHARGE: 18/	78		78		78		78		78		78	
79	BOILER BLOWDOWN - ASH SETTLING	79		79		79		79		79		79	
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80		80		80		80		80		80	
81	VOLUME (1,000 CU.FT./YR.), BOILER BLOWDOWN	81		81		81		81		81		81	
82	- ASH SETTLING	82		82		82		82		82		82	
COOLING FACILITY DATA													
83	NO. OF UNITS AND CAPACITY (GAL/HR) (ONCE THROUGH COOLING (FRESH))	83		83	5	83	124.00	83		83		83	
84	ONCE THROUGH COOLING (SALINE)	84		84		84		84		84		84	
85	COOLING POND(S)	85		85		85		85		85		85	
86	COOLING TOWER(S)	86	3	86	171.00	86	2	86	65.25	86	2	86	
87	COMBINATION(S) 19/	87		87		87		87		87		87	
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1954 1965	88	1948	88	1927 1955	88	1969	88	1967 1968	88	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 20/	89	15.80 21.80	89	10.00	89	20.00	89	28.00	89	27.40	89	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFPS)	90	269.00	90	140.00	90	223.00	90	1,590.00	90	1,100.00	90	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFPS)	91		91		91	223.00	91		91		91	
CAPITAL COSTS OF COOLING FACILITIES													
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92		92		92	546.63	92		92		92	
93	COOLING PONDS (\$1,000)	93		93		93		93		93		93	
94	COOLING TOWERS (\$1,000)	94	662.00	94	161.00	94		94	4,954.00	94	12,278.00	94	
ANNUAL COOLING WATER EXPENSES													
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	121.00	95	17.10	95	11.60	95	126.00	95	212.60	95	
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	11.80	96	4.50	96	2.40	96	69.60	96	25.80	96	

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	PENNSYLVANIA ELECTRIC CO.	PENNSYLVANIA ELECTRIC CO.	PENNSYLVANIA ELECTRIC CO.	PENNSYLVANIA ELECTRIC CO.	PENNSYLVANIA ELECTRIC CO.
2	NAME OF PLANT	2	SAXTON	SEWARD	SHAWVILLE	WARREN	WILLIAMSBURG
3	UTILITY-PLANT CODE	3	379500-0800	379500-1000	379500-1100	379500-1200	379500-1400
4	STATE	4	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA
5	COUNTY	5	BEDFORD	INDIANA	CLEARFIELD	WARREN	BLAIR
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	195 02	197 05	178 02	178 05	195 02
7	PLANT CAPACITY (MW)	7	54,800	268,20	640,00	84,60	30,00
8	ANNUAL GENERATION (MWH) 3/	8	31,741	1,488,400	4,045,600	530,900	178,100
9	PLANT HEAT RATE (BTU/KWH) 4/	9		10,935	10,801	13,454	14,373
AIR QUALITY CONTROL DATA							
FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)	12	66.80	651.60	1,748.30	300.70	110.10
13	AVERAGE HEAT CONTENT (BTU/LB)	13	11,729	12,125	12,428	11,858	11,582
14	AVERAGE SULFUR CONTENT (%)	14	2.09	2.97	2.80	5.44	2.42
15	AVERAGE ASH CONTENT (%)	15	15.58	17.28	13.40	15.89	17.37
16	AVERAGE MOISTURE CONTENT (%)	16	6.19	8.15	5.10	4.30	5.99
17	OIL: CONSUMPTION (1,000 BARRELS)	17					
18	AVERAGE HEAT CONTENT (BTU/GAL)	18		138,000	138,800	138,800	138,800
19	AVERAGE SULFUR CONTENT (%)	19					
20	GAS: CONSUMPTION (1,000 MCF)	20					
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21					
PLANT EQUIPMENT DATA							
22	BOILERS: - TOTAL NO.	22	7	4	4	4	7
23	- NO. OF WET BOTTOM	23					
24	- NO. WITH FLY ASH REINJECTION	24					
25	- NO. WITH MECHANICAL PRECIPITATORS	25					
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26					
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27					
28	- NO. WITH DESULFURIZATION SYSTEMS	28		3	4	4	
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29					
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30		22.00 30.00	15.00	15.00	15.00 25.00
31	TESTED, LOW - HIGH	31					78.00
32	ESTIMATED, LOW - HIGH	32					
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	33					78.00
34	TESTED, LOW - HIGH	34					
35	EST., LOW - HIGH	35		97.80 98.40	98.00	94.00	
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36		97.00 98.00	96.00 98.00	95.00	
37	TESTED, LOW - HIGH	37					
38	ESTIMATED, LOW - HIGH	38					
PLANT OPERATING DATA AND COST OF EQUIPMENT							
39	EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	39	6.59	2.07	5.44	2.06	4.28
40	SULFUR DIOXIDE (1,000 TONS)	40	2.67	37.76	93.53	32.29	5.04
41	NITROGEN OXIDES (1,000 TONS)	41	.49	6.01	15.42	2.73	.94
42	STACKS: - TOTAL NO.	42	4	3	3	1	3
43	- HEIGHT (FEET), LOWEST - HIGHEST 6/	43					
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 7/	44					
45	TOTAL ASH: COLLECTED (1,000 TONS) 8/	45	125.00	163.00	325.00	600.00	200.00
46	SOLD (1,000 TONS) 9/	46					
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47	9.90	110.40	228.10	45.50	19.10
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 10/	48					
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49					
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50					
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51					
52	COMBINATION PRECIPITATORS (\$1,000) 4/	52		1,461.00	2,156.00	204.76	34.65
53	DESULFURIZATION SYSTEMS (\$1,000)	53					
54	STACKS (\$1,000)	54					
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	21.30	221.00	1,240.10	65.20	69.49
56	REVENUES FROM SALE OF ASH (\$1,000)	56	25.80	135.20	476.90	63.40	51.20
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57					
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58					
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 11/	59	25.80	142.20	482.90	67.40	53.80
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60					
WATER QUALITY CONTROL DATA							
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R	RSTN BR JUNIAT	R CONEMAUGH	R W. BR. SUSO. R	R ALLEGHENY
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62		135.90	480.00	697.40	100.00
63	AVERAGE RATE OF DISCHARGE (CFS)	63		135.80	480.00	697.07	99.90
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 12/	64		.10	4.13	.33	.10
65	PEAK LOAD MONTH:	65					
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66		75.00 38.00	80.00 50.00	74.00 OEC	74.00 OEC
67	AT OUTFALL, SUMMER - WINTER	67		89.00		94.00	92.00
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	68		427.00		1,875.00	2,293.00
69		69		545.00		2,563.00	4,720.00
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C 13/	70					
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71		3.93	.42	.82	.49
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72		2.43	.73	6.62	23.25
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73	2.15			64.58	1.95
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74			.23	20.11	2.71
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	.34		1.20		.90
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76		YES	YES	YES	YES
77	SEWAGE DISPOSAL: METHOD PS, ST, SA, OT 14/	77	ST	ST	ST	ST	ST
78	RECEIVING WATER BODY	78					
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	79			4.00	6.50	
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80			27.00	131.00	
81	VOLUME (1,000 CU.FT./YR), BOILER BLOWDOWN	81					
82	- ASH SETTLING	82			57,092.25	28,000.00	34,158.00
COOLING FACILITY DATA							
83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	83		4	258.00		2
84	ONCE THROUGH COOLING (SALINE)	84					80.00
85	COOLING POND(S)	85					
86	COOLING TOWER(S)	86					
87	COMBINATIONS 15/	87	2	47.80	4	628.00	3
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1923	1926	1938	1950	1948
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 16/	89		16.00		20.00	20.00
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90		135.90		480.00	131.00
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91		135.90		480.00	697.40
CAPITAL COSTS OF COOLING FACILITIES							
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92			2,089.84	2,228.70	442.90
93	COOLING PONDS (\$1,000)	93					205.10
94	COOLING TOWERS (\$1,000)	94				795.20	42.80
ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95		5.30	.22	28.20	1.00
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96		.10	1.00	4.00	.20
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97		9.50	43.80	60.40	12.00
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98		2.40	18.00	19.20	1.50

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	PENNSYLVANIA ELECTRIC CO.	PENNSYLVANIA POWER & LIGHT CO.	PENNSYLVANIA POWER & LIGHT CO.	PENNSYLVANIA POWER & LIGHT CO.	PENNSYLVANIA POWER & LIGHT CO.	1
2	NAME OF PLANT	2	CONEMAUGH	BRUNNER ISLAND	HOLTWOOD	MARTINS CREEK	STANTCA	2
3	UTILITY-PLANT CODE	3	379500-1500	380000-0200	380000-0700	380000-0800	380000-0900	3
4	STATE	4	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	4
5	COUNTY	5	INDIANA	YORK	LANCASTER	NORTHAMPTON	LUZERNE	5
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	197 05	196 02	196 02	151 02	151 02	6
7	PLANT CAPACITY (MW)	7	1,684.00	1,558.73	105.00	612.50	146.00	7
8	ANNUAL GENERATION (MWH) 3/	8	7,562,600	8,468,000	606,100	1,793,900	520,400	8
9	PLANT HEAT RATE (BTU/KWH) 2/	9	9,263	9,929	14,036	11,433	12,989	9
10		10						10
11		11						11
AIR QUALITY CONTROL DATA								
FUEL CONSUMPTION DATA (ANNUAL)								
12	COAL: CONSUMPTION (1,000 TONS)	12	3,044.70	3,353.70	443.10	807.70	409.10	12
13	AVERAGE HEAT CONTENT (BTU/LB)	13	11,403	12,329	9,588	12,473	10,104	13
14	AVERAGE SULFUR CONTENT (%)	14	2.59	2.84	.70	3.09	.90	14
15	AVERAGE ASH CONTENT (%)	15	20.50	14.95	22.33	12.75	20.97	15
16	AVERAGE MOISTURE CONTENT (%)	16	5.33	4.50	15.20	4.93	12.22	16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	267.70	240.00	1.95	61.96	4.32	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	138,800	137,520	137,593	137,628	138,505	18
19	AVERAGE SULFUR CONTENT (%)	19	.20	.22	.44	.40	.16	19
20	GAS: CONSUMPTION (1,000 MCF)	20						20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21						21
PLANT EQUIPMENT DATA								
22	BOILERS: - TOTAL NO.	22	2	3	4	2	9	22
23	- NO. OF WET BOTTOM	23					1	23
24	- NO. WITH FLY ASH REINJECTION	24						24
25	- NO. WITH MECHANICAL RECIPITATORS	25					8	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26	2	3	3	2		26
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27			1		1	27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	20.00	20.00	20.00	20.00	20.00	29
30	MECHANICAL RECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30						30
31	TESTED, LOW - HIGH	31						31
32	ESTIMATED, LOW - HIGH	32						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/:	33	99.50	98.00	99.50	83.00	99.50	33
34	DESIGN, LOW - HIGH	34						34
35	TESTED, LOW - HIGH	35						35
36	EST., LOW - HIGH	36		95.00	98.00	85.00	98.00	36
37	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	37						37
38	TESTED, LOW - HIGH	38						38
39	ESTIMATED, LOW - HIGH	39						39
PLANT OPERATING DATA AND COST OF EQUIPMENT								
39	EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	39	2.65	12.89	2.51	1.31	22.56	39
40	SULFUR DIOXIDE (1,000 TONS)	40	154.74	186.86	6.08	49.00	7.22	40
41	NITROGEN OXIDES (1,000 TONS)	41	28.00	30.71	3.99	7.41	4.73	41
42	STACKS: - TOTAL NO.	42	2	2	4	1	3	42
43	- HEIGHT (FEET), LOWEST - HIGHEST 7/	43	1,000.00	450.00	600.00	250.00	170.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 8/	44						44
45	TOTAL ASH: COLLECTED (1,000 TONS) 9/	45	578.20	494.50	83.50	90.20	79.90	45
46	SOLD (1,000 TONS) 10/	46					36.10	46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 11/	48						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50						50
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51	3,374.00	3,578.00	216.00	2,200.00	526.00	51
52	COMBINATION PRECIPITATORS (\$1,000)	52			1,035.00			52
53	DESULFURIZATION SYSTEMS (\$1,000)	53						53
54	STACKS (\$1,000)	54	4,274.00	1,286.00	107.00	232.00	29.30	54
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	632.60	608.00	73.00	82.00	16.00	55
56	REVENUES FROM SALE OF ASH (\$1,000)	56						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						58
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 12/	59	654.40	739.00	81.00	119.00	84.00	59
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60					16.00	60
WATER QUALITY CONTROL DATA								
61	COOLING WATER: SOURCE CODES R, L, B, C, W, M & F EXPL. IN FOOTNOTES	61	R CONEMAUGH	R SUSQUEHANNA	R SUSQUEHANNA	R DELAWARE	R SUSQUEHANNA	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	23.40	1,104.00	187.00	251.00	346.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	11.10	1,090.00	187.00	243.30	344.00	63
64	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 13/	64	12.30	9.49	14.00	2.16	2.98	64
65	REAK LOAD MONTH: SUMMER - WINTER	65	SEP OEC	AUG OEC	AUG OEC	AUG OEC	AUG OEC	65
66	MAX. TEMP. DURING REAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	80.00	84.00	84.00	82.00	82.00	66
67	AT OUTFALL, SUMMER - WINTER	67	90.00	112.00	107.00	106.00	90.00	67
68	AVERAGE FLOW IN RECEIVING BODY DURING REAK MONTH (CFS): SUMMER - WINTER	68	383.00	14,500.00	14,500.00	5,700.00	3,600.00	68
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OR	69	1,225.00	59,700.00	59,700.00	14,200.00	9,500.00	69
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70						70
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71	.60	.30	.80	.63	.08	71
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	72	465.00	476.07			.01	72
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	73	2,143.50	101.50	1.04			73
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74						74
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75	YES	YES	YES	YES	YES	75
76	SEWAGE DISPOSAL: METHOD RS, ST, SK, OT 14/	76	OT	OT	OT	OT	ST	76
77	RECEIVING WATER BODY	77	R CONEMAUGH	R SUSQUEHANNA	R SUSQUEHANNA	R DELAWARE	R SUSQUEHANNA	77
78	POND DISCHARGE 15/	78						78
79	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79	7.00			10.00		79
80	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	80	50.00			200.00		80
81	BOILER BLOWDOWN - ASH SETTLING	81		9,800.00	5.30	3,600.00	5,300.00	81
82		82	367,164.00	175,000.00	25,000.00	63,000.00	52,500.00	82
COOLING FACILITY DATA								
83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	83		3 1,558.73	3 96.00	2 312.50	3 140.00	83
84	ONCE THROUGH COOLING (SALINE)	84						84
85	COOLING PONDS (S)	85						85
86	COOLING TOWER (S)	86	2 1,640.00					86
87	COMBINATIONS 16/	87						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1969 1970	1961 1969	1925 1954	1954 1956	1927 1953	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 17/	89	27.30	24.00	27.00	27.00	18.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	1,250.00	1,159.00	224.00	266.00	335.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91		1,159.00	224.00	266.00	335.00	91
CAPITAL COSTS OF COOLING FACILITIES								
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92		1,755.00	489.00	1,247.00	1,328.00	92
93	COOLING PONDS (\$1,000)	93						93
94	COOLING TOWERS (\$1,000)	94	5,896.00					94
ANNUAL COOLING WATER EXPENSES								
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	184.50	35.50	18.00	16.20	6.50	95
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	1.40	5.80	.80			96
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES								
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	52.70	78.50	29.50		4.70	97
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	85.20	65.20	1.00	1.20	.80	98

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	PENNSYLVANIA POWER & LIGHT CO.	PENNSYLVANIA POWER CO.	PHILADELPHIA ELECTRIC CO.	PHILADELPHIA ELECTRIC CO.	PHILADELPHIA ELECTRIC CO.
2	NAME OF PLANT	2	SUNBURY	NEW CASTLE	BARBARDEES	CHESTER	CRCMBY
3	UTILITY-PLANT CODE	3	380000-1000	380500-0100	384000-0100	384000-0200	384000-0300
4	STATE	4	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA
5	COUNTY	5	SNYDER	LAWRENCE	MONTGOMERY	DELAWARE	CHESTER
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	195	02	045	02	045
7	PLANT CAPACITY (MW)	7	409.78	425.00	155.00	255.00	417.50
8	ANNUAL GENERATION (MWH) 3/	8	2,465,000	1,878,700	798,500	807,500	2,631,900
9	PLANT HEAT RATE (BTU/KWH) 3/	9	12,719	11,894	12,665	14,608	9,910
10	AIR QUALITY CONTROL DATA						
11	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)	12	1,294.00	1,044.00	36.00	4.00	219.00
13	AVERAGE HEAT CONTENT (BTU/LB)	13	12,095	10,698	13,040	12,523	13,045
14	AVERAGE SULFUR CONTENT (%)	14	2.48	3.48	2.87	2.68	2.35
15	AVERAGE ASH CONTENT (%)	15	13.19	20.29	8.45	9.67	10.16
16	AVERAGE MOISTURE CONTENT (%)	16	8.64	6.50	5.49	4.95	5.05
17	OIL: CONSUMPTION (1,000 BARRELS)	17	8.41		787.00	1,393.00	3,330.00
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	137,664		150,314	147,479	145,768
19	AVERAGE SULFUR CONTENT (%)	19	.16		.82	.86	.87
20	GAS: CONSUMPTION (1,000 MCF)	20			4,058.00	2,960.00	
21	AVERAGE HEAT CONTENT (BTU/CU.F.T.)	21			1,033	1,036	
22	PLANT EQUIPMENT DATA						
23	BOILERS: - TOTAL NO.	23	6	5	6	14	2
24	- NO. OF WET BOTTOM	24					
25	- NO. WITH FLY ASH REINJECTION	25					
26	- NO. WITH MECHANICAL PRECIPITATORS	26					
27	- NO. WITH ELECTROSTATIC PRECIPITATORS	27					
28	- NO. WITH COMBINATION PRECIPITATORS 4/	28					
29	- NO. WITH DESULFURIZATION SYSTEMS	29					
30	- EXCESS AIR USED (%)	30					
31	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	31	20.00	40.00	20.00	20.00	15.00
32	TESTED, LOW - HIGH	32				80.00	
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	33				80.00	
34	TESTED, LOW - HIGH	34					98.00
35	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	35	90.00	93.00	95.00	98.00	99.20
36	TESTED, LOW - HIGH	36				94.00	
37	ESTIMATED, LOW - HIGH	37					
38	ESTIMATED, LOW - HIGH	38					
39	PLANT OPERATING DATA AND COST OF EQUIPMENT						
40	EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	40	12.81	4.96	.17	.32	.19
41	SULFUR DIOXIDE (1,000 TONS)	41	62.90	71.23	4.19	4.23	19.81
42	NITROGEN OXIDES (1,000 TONS)	42	11.66	9.40	2.85	3.68	9.31
43	STACKS: - TOTAL NO.	43	4	2	2	3	2
44	- HEIGHT (FEET), LOWEST - HIGHEST 5/	44	300.00	231.00	330.00	192.00	300.00
45	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 6/	45				195.00	
46	TOTAL ASH: COLLECTED (1,000 TONS) 7/	46	155.50	206.90	3.80	.30	29.10
47	SOLD (1,000 TONS) 8/	47					
48	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	48					
49	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 9/	49					
50	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	50					
51	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	51		1,511.00		156.00	
52	ELECTROSTATIC PRECIPITATORS (\$1,000)	52	3,578.30		500.00		900.00
53	COMBINATION PRECIPITATORS (\$1,000) 4/	53					
54	DESULFURIZATION SYSTEMS (\$1,000)	54					
55	STACKS (\$1,000)	55					
56	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	56	337.00	156.00	244.00	122.00	368.00
57	REVENUES FROM SALE OF ASH (\$1,000)	57	219.00	117.00	2.70	.50	60.30
58	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	58					
59	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	59					
60	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 10/	60	236.00	117.00	2.70	.50	60.30
61	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	61					
62	WATER QUALITY CONTROL DATA						
63	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	63	R SUSQUEHANNA	R BEAVER	R SCHUYLKILL	R DELAWARE	R SCHUYLKILL
64	AVERAGE RATE OF WITHDRAWAL (CFPS)	64	448.50	456.00	127.00	298.60	513.40
65	AVERAGE RATE OF DISCHARGE (CFPS)	65	443.50	456.00	127.00	298.60	513.10
66	AVE. RATE OF CONSUMPTION (CFPS), CALCULATED - REPORTED 11/	66	3.86	3.92	1.09	2.57	4.42
67	PEAK LOAD MONTH: SUMMER - WINTER 12/	67	AUG	APR	JUL	JUL	JUL
68	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	68	82.00	60.00	83.00	84.00	84.00
69	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFPS): SUMMER - WINTER	69	100.00	73.00	99.00	95.00	101.00
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OR 13/	70					
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71					
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	2.37	1.23	.27	.20	.45
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73	26.34	.41	.20	.60	
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74					
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	11.00				
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76	YES	YES	YES	YES	YES
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, QTM/	77	PS	ST	PS	PS	OT
78	RECEIVING WATER BODY	78					
79	POND DISCHARGE 14/	79					
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80		6.50	10.10	9.60	6.10
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	81	4,800.00	100.00	13.00	31.00	7.70
82	BOILER BLOWDOWN - ASH SETTLING	82	88,300.00	61,500.00	9,600.00	414.99	7,730.00
83	COOLING FACILITY DATA						
84	NO. OF UNITS AND CAPACITY (TWH) USING: ONCE THROUGH COOLING (FRESH)	84	4	5	3	6	2
85	ONCE THROUGH COOLING (ISALINE)	85	409.78	425.08	196.00	284.00	388.00
86	COOLING PONDS (S)	86					
87	COOLING TOWER(S)	87					
88	COMBINATION(S) 15/	88					
89	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	89	1949	1953	1939	1964	1924
90	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 16/	90	20.00	23.00	12.50	16.70	15.00
91	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFPS)	91	458.40	629.00	629.00	267.00	267.00
92	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFPS)	92	458.40	629.00	629.00	267.00	267.00
93	CAPITAL COSTS OF COOLING FACILITIES						
94	ONCE THROUGH COOLING SYSTEMS (\$1,000)	94	2,600.00	1,308.00			
95	COOLING PONDS (\$1,000)	95					
96	COOLING TOWERS (\$1,000)	96					
97	ANNUAL COOLING WATER EXPENSES						
98	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	98	31.80	14.00	42.00	12.30	62.20
99	COST OF CHEMICAL ADDITIVES (\$1,000)	99	1.50	11.00	3.00	9.50	9.00
100	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
101	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	101	3.00	64.00	19.00	39.90	59.50
102	COST OF CHEMICAL ADDITIVES (\$1,000)	102	12.70	3.00	5.00	2.70	1.30

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

NAME OF UTILITY	1	PHILADELPHIA ELECTRIC CO.	PHILADELPHIA ELECTRIC CO.	PHILADELPHIA ELECTRIC CO.	PHILADELPHIA ELECTRIC CO.	PHILADELPHIA ELECTRIC CO.	1
NAME OF PLANT	2						2
UTILITY-PLANT CODE	3						3
STATE	4	DELAWARE	DELAWARE	DELAWARE	DELAWARE	DELAWARE	4
COUNTY	5	DELAWARE	DELAWARE	DELAWARE	DELAWARE	DELAWARE	5
WATER QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	045	02	045	02	045	6
PLANT CAPACITY (MW)	7	439.25	707.20	46.00	476.75	325.40	7
ANNUAL GENERATION (MWH) 2/	8	1,940,600	4,189,900	205,600	2,252,100	1,879,400	8
PLANT HEAT RATE (BTU/KWH) 2/	9	10,700	8,962	10,332	12,861	9,705	9

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	12		1,429.00			1.00	12
AVERAGE HEAT CONTENT (BTU/LB)	13		13,024			12,200	13
AVERAGE SULFUR CONTENT (%)	14		2.18			1.36	14
AVERAGE ASH CONTENT (%)	15		8.91			18.02	15
AVERAGE MOISTURE CONTENT (%)	16		5.57			5.42	16
DIL: CONSUMPTION (1,000 BARRELS)	17	3,405.00	60.00			4,756.00	17
AVERAGE HEAT CONTENT (BTU/GAL)	18	145,185	144,063			144,807	18
AVERAGE SULFUR CONTENT (%)	19	.78	.72			.79	19
GAS: CONSUMPTION (1,000 MCF)	20						20
AVERAGE HEAT CONTENT (BTU/CU.FT.)	21						21

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	22	3	2			5	7	22
- NO. OF WET BOTTOM	23					2		23
- NO. WITH FLY ASH REINJECTION	24					4	3	24
- NO. WITH MECHANICAL PRECIPITATORS	25					4	2	25
- NO. WITH ELECTROSTATIC PRECIPITATORS	26							26
- NO. WITH COMBINATION PRECIPITATORS 2/	27	2	2					27
- NO. WITH DESULFURIZATION SYSTEMS	28							28
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 2/	29	15.00	20.00	15.00		20.00	25.00	29
MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30					65.00	80.00	30
TESTED, LOW - HIGH	31							31
ESTIMATED, LOW - HIGH	32							32
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	33		96.00	98.50		80.00		33
TESTED, LOW - HIGH	34		96.00	98.94		73.00		34
EST., LOW - HIGH	35	50.00	55.00					35
DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36							36
TESTED, LOW - HIGH	37							37
ESTIMATED, LOW - HIGH	38							38

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS: 2/	39		.31	1.45		.25	.17	39
PARTICULATE MATTER (1,000 TONS)	40		8.91	61.20		2.10	11.82	40
SULFUR DIOXIDE (1,000 TONS)	41		7.51	12.99		1.73	9.96	41
NITROGEN OXIDES (1,000 TONS)	42		5	2		4	5	42
STACKS: - TOTAL NO.	43							43
- HEIGHT (FEET), LOWEST - HIGHEST 2/	44	160.00	200.00	248.00		173.00	228.00	44
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 2/	45					.02	.10	45
TOTAL ASH: COLLECTED (1,000 TONS) 2/	46		.80	138.00		1.10	1.00	46
SOLD (1,000 TONS) 2/	47			24.20				47
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	48							48
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 2/	49							49
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	50					496.00	221.00	50
INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	51					539.00	167.00	51
ELECTROSTATIC PRECIPITATORS (\$1,000)	52		650.00	1,985.00				52
COMBINATION PRECIPITATORS (\$1,000)	53							53
DESULFURIZATION SYSTEMS (\$1,000)	54		173.00	236.00		119.00	222.00	54
STACKS (\$1,000)	55		4.00	173.10		2.20	5.00	55
ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	56			3.20				56
REVENUES FROM SALE OF ASH (\$1,000)	57							57
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	58							58
REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	59		4.00	173.10		2.20	5.00	59
TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 2/	60			3.20				60
TOTAL BYPRODUCT SALES REVENUES (\$1,000)								

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R	DELAWARE	P	DELAWARE	P	SUSQUEHANNA	P	DELAWARE	P	SCHUYLKILL	61	
62	AVERAGE RATE OF WITHDRAWAL (CFD)	62		880.00		936.00		93.00		695.00		404.09	62	
63	AVERAGE RATE OF DISCHARGE (CFD)	63		880.00		936.00		93.00		695.00		404.24	63	
64	AVF. RATE OF CONSUMPTION (CFD), CALCULATED - REPORTED	64		7.57		8.05		.80		5.98		3.48	64	
65	PEAK LOAD MONTH: JUL	65		JUL	OEC	JUL	OEC	JUL	OEC	JUL	OEC	JUL	OEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66		85.00	47.00	82.00	48.00	85.00	57.00	84.00	46.00	89.00	47.00	66
67	AT OUTFALL, SUMMER - WINTER	67		98.00	59.00	95.00	56.00	96.00	70.00	94.00	56.00	104.00	62.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFD): SUMMER	68		105,000.00		207,000.00		7,300.00		96,000.00		630.00		68
69	- WINTER	69		105,000.00		207,000.00		57,000.00		96,000.00		4,262.00		69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, DW	70												70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71		2.95				.20		2.00		6.00		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72						65.50				.60		72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73												73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74								15.00				74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	122.50		186.00		3.56		495.00		60.00			75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76	YES		YES		YES		YES		YES		YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT/	77	PS		PS		OT		PS		PS			77
78	RECEIVING WATER BODY	78					R	SUSQUEHANNA						78
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	79	7.00		6.90				6.80		10.00	7.00		79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80	70.00		52.00				35.00		1,000.00	80		
81	VOLUME (1,000 CU.FT./YR), BOILER BLOWDOWN	81		1.13							1,435.00	81		
82	- ASH SETTLING	82				381,000.00		1,952.00				82		

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING: 2/	83	6	379.75	2	650.00	1	40.00	4	446.00	5	338.00	83
ONCE THROUGH COOLING (FRESH)	84											84
ONCE THROUGH COOLING (SALINE)	85											85
COOLING POND(S)	86											86
COOLING TOWER(S)	87											87
COMBINATIONS 2/	88	1924	1953	1960	1966	1913	1914	1917	1958			88
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 2/	89	11.00	18.00	12.00	14.00	11.00			15.00			89
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFD)	90		424.00	890.00	92.00		872.00		429.00			90
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFD)	91		423.00	890.00	104.00		872.00		429.00			91

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS (\$1,000)	92											92
COOLING PONDS (\$1,000)	93											93
COOLING TOWERS (\$1,000)	94											94

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	46.20	12.00	1.00	35.80	20.80	95
COST OF CHEMICAL ADDITIVES (\$1,000)	96	17.40	25.20	2.60	39.40	4.80	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	48.80	45.50	4.90	12.30	471.10	97
COST OF CHEMICAL ADDITIVES (\$1,000)	98	77.10	84.80	38.10	40.70	596.30	98

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	PHILADELPHIA ELECTRIC CO.	PIQUA MUNICIPAL POWER PLANT	PORTLAND GENERAL ELECTRIC CO.	POTOMAC EOLSON CO. (VA.)	POTOMAC ELECTRIC POWER CO.	1
2		2						2
3	NAME OF PLANT	3	SOUTHWARK	PIQUA	STATION L	RIVERTON	BENNING	3
4	UTILITY-PLANT CODE	4	384-000-1100	387500-0100	393000-0200	393500-0300	394500-0100	4
5	STATE	5	PENNSYLVANIA	OHIO	OREGON	VIRGINIA	WASHINGTON	5
6	COUNTY	6	PHILADELPHIA	MIAMI	MULTNOMAH	WARREN	O. C.	6
7	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	7	045 02	173 05	193 17	226 02	047 02	7
8	PLANT CAPACITY (MW)	8	370.00	53.00	75.50	34.50	538.00	8
9	ANNUAL GENERATION (MMWH) 3/	9	2,106,900	144,800		116,900	1,526,900	9
10	PLANT HEAT RATE (BTU/KWH) 3/	10	12,455	16,200		14,654	12,983	10
11		11						11
AIR QUALITY CONTROL DATA								
FUEL CONSUMPTION DATA (ANNUAL)								
12	COAL: CONSUMPTION (1,000 TONS)	12		118.40		73.80	186.19	12
13	AVERAGE HEAT CONTENT (BTU/LB)	13		12,147		11,470	12,811	13
14	AVERAGE SULFUR CONTENT (%)	14		2.09		2.69	.96	14
15	AVERAGE ASH CONTENT (%)	15		11.28		21.22	9.83	15
16	AVERAGE MOISTURE CONTENT (%)	16		3.67		2.76	5.14	16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	4,279.00	.60		3.14	2,430.22	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	146,017	140,000		139,000	146,326	18
19	AVERAGE SULFUR CONTENT (%)	19	.86	.80		.25	.98	19
20	GAS: CONSUMPTION (1,000 MCF)	20						20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21						21
PLANT EQUIPMENT DATA								
22	BOILERS: - TOTAL NO.	22	4	6	7	1	23	22
23	- NO. OF WET BOTTOM	23						23
24	- NO. WITH FLY ASH REINJECTION	24						24
25	- NO. WITH MECHANICAL PRECIPITATORS	25		3		1	12	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26					1	26
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27	4				1	27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	26.00	32.00 38.00	25.00 40.00	20.00	3.00 25.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30		85.00 92.00		85.00	93.00	30
31	TESTED, LOW - HIGH	31				79.00		31
32	ESTIMATED, LOW - HIGH	32		80.00 90.00		79.00		32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/; DESIGN, LOW - HIGH	33	99.30				93.00	33
34	TESTED, LOW - HIGH	34	25.80 43.50				96.00 98.40	34
35	EST., LOW - HIGH	35	45.40 57.80					35
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36					96.00	36
37	TESTED, LOW - HIGH	37						37
38	ESTIMATED, LOW - HIGH	38						38
PLANT OPERATING DATA AND COST OF EQUIPMENT								
39	EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	39	.34	1.91		2.80	2.20	39
40	SULFUR DIOXIDE (1,000 TONS)	40	12.35	4.62		3.89	11.49	40
41	NITROGEN OXIDES (1,000 TONS)	41	9.44	8.85		6.67	6.76	41
42	STACKS: - TOTAL NO.	42	4	5	6	1	9	42
43	- HEIGHT (FEET), LOWEST - HIGHEST 7/	43	264.00	99.50 127.00	45.00 51.00	109.00	177.30 241.40	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 8/	44	7.50					44
45	TOTAL ASH: COLLECTED (1,000 TONS) 9/	45	1.00	13.10		13.00	18.82	45
46	SOLO (1,000 TONS) 10/	46				2.80		46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
48	EQUIVALENT OF ACIO COLLECTED (1,000 TONS) 11/	48						48
49	ELEMENTAL AND EQUIVALENT OF ACIO SOLO (1,000 TONS)	49						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50		35.00		207.00	154.00	50
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51					116.00	51
52	COMBINATION PRECIPITATORS (\$1,000) 12/	52	1,575.00				271.00	52
53	DESULFURIZATION SYSTEMS (\$1,000)	53						53
54	STACKS (\$1,000)	54	176.00		8.90	27.00	459.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	1.70	17.00		6.40	202.00	55
56	REVENUES FROM SALE OF ASH (\$1,000)	56				2.80		56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						58
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	59	1.70	17.00		6.40	202.00	59
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60				2.80		60
WATER QUALITY CONTROL DATA								
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	DELAWARE	MIAMI	WILLAMETTE	SHENANDOAH	ANACOSTIA	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	653.00	90.00		69.00	236.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	653.00	90.00		69.00	233.00	63
64	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	64	5.62	.77		.59	2.03	64
65	PEAK LOAD MONTH: SUMMER - WINTER 15/	65	JUL	DEC	JUN	JAN	JUL	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	84.00 45.00	87.00 48.00		79.00 34.00	86.00 49.00	66
67	AT OUTFALL, SUMMER - WINTER	67	99.00 61.00	96.00 50.00		95.00 50.00	101.00 58.00	67
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	68	120,000.00	80.00		964.00		68
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C 16/	69	120,000.00	94.00		2,050.00		69
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70		1.00		.05	.85	70
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71				.60	18.00	71
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	72					9.13	72
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	73						73
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74	240.00	.75	.50	3.00	9.78	74
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75	YES	YES		.50	34.00	75
76	SEWAGE DISPOSAL: METHOD RS, ST, SW, OT 17/	76	RS	RS	ST	ST	PS	76
77	RECEIVING WATER BODY	77				SHENANDOAH		77
78	POND DISCHARGE 18/	78	11.20					78
79	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79	700.00					79
80	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	80						80
81		81	135.15					81
82		82				32,400.00		82
COOLING FACILITY DATA								
83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	83	2	6	4	1	11	83
84	ONCE THROUGH COOLING (SALINE)	84	374.00	52.00	73.50	40.00	328.00	84
85	COOLING POND(S)	85						85
86	COOLING TOWER(S)	86					1	86
87	COMBINATIONS 19/	87						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1947 1948	1933 1961	1916 1930	1949	1917 1968	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 20/	89	13.00	9.50 18.00	15.00	16.00	24.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	620.00	160.00	244.00	66.00	1,144.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	620.00	160.00	14.00	67.00		91
CAPITAL COSTS OF COOLING FACILITIES								
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92			166.00	238.00	590.00	92
93	COOLING PONDS (\$1,000)	93						93
94	COOLING TOWERS (\$1,000)	94					660.00	94
ANNUAL COOLING WATER EXPENSES								
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	128.00	5.00		17.30	51.80	95
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	14.40	2.50		.30		96
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES								
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	132.00	5.00		11.90	101.00	97
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	23.00	4.00		1.00		98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	POTOMAC ELECTRIC POWER CO.	POTOMAC ELECTRIC POWER CO.	POTOMAC ELECTRIC POWER CO.	POTOMAC ELECTRIC POWER CO.	POTOMAC ELECTRIC POWER CO.	1
2	NAME OF PLANT	2	BUZZARD POINT	CHALK POINT	OICKERSON	POTOMAC RIVER	MORGANTOWN	2
3	UTILITY-PLANT CODE	3	394500-0200	394500-0300	394500-0400	394500-0500	394500-0600	3
4	STATE	4	WASHINGTON	MARYLAND	MARYLAND	VIRGINIA	MARYLAND	4
5	COUNTY	5	D.C.	PRINCE GEORGES	MONTGOMERY	CITY OF ALEX.	CHARLES	5
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	047 02	047 02	047 02	047 02	116 02	6
7	PLANT CAPACITY (MW)	7	538.00	730.00	570.00	514.00	1,148.00	7
8	ANNUAL GENERATION (MWH) 2/	8	455,100	3,239,700	3,223,700	2,718,600	3,973,300	8
9	PLANT HEAT RATE (BTU/KWH) 2/	9	13,680	9,919	9,562	10,200	9,248	9
10		10						10
11		11						11
AIR QUALITY CONTROL DATA								
FUEL CONSUMPTION DATA (ANNUAL)								
12	COAL: CONSUMPTION (1,000 TONS)	12	99.56	1,297.47	1,201.78	1,051.27	317.04	12
13	AVERAGE HEAT CONTENT (BTU/LB)	13	12,599	12,091	11,622	13,091	12,160	13
14	AVERAGE SULFUR CONTENT (%)	14	1.39	2.12	1.89	.98	2.33	14
15	AVERAGE ASH CONTENT (%)	15	12.90	14.56	15.89	9.91	16.33	15
16	AVERAGE MOISTURE CONTENT (%)	16	5.12	5.84	7.19	4.78	4.16	16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	580.71	131.29	446.85	34.61	4,611.16	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	146,494	137,646	137,948	137,954	147,993	18
19	AVERAGE SULFUR CONTENT (%)	19	.98	.05	.10	.19	2.07	19
20	GAS: CONSUMPTION (1,000 MCF)	20						20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21						21
PLANT EQUIPMENT DATA								
22	BOILERS: - TOTAL NO.	22	6	2	3	5	2	22
23	- NO. OF WET BOTTOM	23						23
24	- NO. WITH FLY ASH REINJECTION	24					1	24
25	- NO. WITH MECHANICAL PRECIPITATORS	25	2					25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26		2	3			26
27	- NO. WITH COMBINATION PRECIPITATORS 2/	27	6			5	2	27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 2/	29	20.00	18.00	20.00	18.00	18.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30	86.40					30
31	TESTED, LOW - HIGH	31						31
32	ESTIMATED, LOW - HIGH	32						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 2/ DESIGN, LOW - HIGH	33	99.30	97.50	97.50	99.30	99.70	33
34	TESTED, LOW - HIGH	34		98.60	99.60	98.20	98.20	34
35	EST., LOW - HIGH	35	99.30			94.50		35
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36			86.80			36
37	TESTED, LOW - HIGH	37						37
38	ESTIMATED, LOW - HIGH	38						38
PLANT OPERATING DATA AND COST OF EQUIPMENT								
39	EST. TOTAL ANNUAL PLANT EMISSIONS 2/6 PARTICULATE MATTER (1,000 TONS)	39	.05	1.36	8.85	2.59	.70	39
40	SULFUR DIOXIDE (1,000 TONS)	40	2.87	53.93	33.47	20.21	46.50	40
41	NITROGEN OXIDES (1,000 TONS)	41	1.35	11.97	8.88	9.54	13.02	41
42	STACKS: - TOTAL NO.	42	3	2	2	5	2	42
43	- HEIGHT (FEET), LOWEST - HIGHEST 2/	43						43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 2/	44	178.25	400.00	400.00	161.00	700.00	44
45	TOTAL ASH: COLLECTED (1,000 TONS) 2/	45	12.80	188.91	181.40	104.00	51.70	45
46	SOLO (1,000 TONS) 2/	46						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 2/	48						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	49						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50	168.00					50
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51		907.00	1,309.00		3,448.00	51
52	COMBINATION PRECIPITATORS (\$1,000) 2/	52	1,990.00			1,669.00		52
53	DESULFURIZATION SYSTEMS (\$1,000)	53						53
54	STACKS (\$1,000)	54	61.00	605.00	531.00	271.00	3,123.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	230.00	1,290.00	597.00	760.00	379.00	55
56	REVENUES FROM SALE OF ASH (\$1,000)	56						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						58
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 2/	59	230.00	1,290.00	597.00	760.00	379.00	59
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60						60
WATER QUALITY CONTROL DATA								
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R ANACOSTIA	R PATUXENT	R POTOMAC	R POTOMAC	R POTOMAC	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	238.00	800.00	498.00	563.00	900.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	238.00	800.00	498.00	563.00	900.00	63
64	Avg. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 2/	64	2.05	6.88	4.28	4.84	7.74	64
65	PEAK LOAD MONTH: JUL	65	0EC	0EC	0EC	0EC	0EC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	85.00 46.00	82.00 46.00	85.00 46.00	83.00 45.00	82.00 47.00	66
67	AT OUTFALL, SUMMER - WINTER	67	94.00 56.00	91.00 64.00	100.00	97.00 59.00	89.00 54.00	67
68	Ave. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68						68
69	- WINTER	69						69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OIL	70						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71	1.09		.03	.55		71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	15.00	305.80	47.85	27.00	22.50	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73			15.00			73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74			45.00			74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75						75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76	.54 YES	793.00 YES	28.00 YES	YES	440.00 YES	76
77	SEWAGE DISPOSAL: METHOD PS, ST, SM, OT 2/	77	PS	OT	OT	PS	OT	77
78	RECEIVING WATER BODY	78	R POTOMAC	R PATUXENT	R POTOMAC	R POTOMAC	R POTOMAC	78
79	POND DISCHARGE 2/	79						79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80						80
81	VOLUME (1,000 CU.FT./YR), BOILER BLOWDOWN	81						81
82	- ASH SETTLING	82						82
COOLING FACILITY DATA								
83	NO. OF UNITS AND CAPACITY (MW) USING 2/	83	6 304.00		3 525.00	5 514.00		83
84	ONCE THROUGH COOLING (FRESH)	84		2 730.00			2 1,252.00	84
85	ONCE THROUGH COOLING (SALINE)	85						85
86	COOLING PONDS (S)	86						86
87	COOLING TOWER(S)	87						87
88	COMBINATIONS 2/	88						88
89	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	89	1933 1945	1944	1959 1962	1949 1957	1970 1971	89
90	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 2/	90	10.00	11.00	16.00	14.00	10.00	90
91	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	91	880.00	1,114.00	633.00	696.40	2,250.00	91
92	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	92	880.00	1,114.00	633.00	697.00	2,250.00	92
CAPITAL COSTS OF COOLING FACILITIES								
93	ONCE THROUGH COOLING SYSTEMS (\$1,000)	93	687.00	4,665.00	2,510.00	1,611.00	10,412.00	93
94	COOLING PONDS (\$1,000)	94						94
95	COOLING TOWERS (\$1,000)	95						95
ANNUAL COOLING WATER EXPENSES								
96	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	96	87.60	355.00	77.00	61.50	196.00	96
97	COST OF CHEMICAL ADDITIVES (\$1,000)	97						97
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES								
98	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	98	26.70	100.00	40.00	20.70	193.00	98
99	COST OF CHEMICAL ADDITIVES (\$1,000)	99						99

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1 NAME OF UTILITY	1 COWLITZ COUNTY	PUBLIC SERVICE	PUBLIC SERVICE	PUBLIC SERVICE	PUBLIC SERVICE
2	2 PUB UTIL DST #1	CO. OF NEW MEXICO	CO. OF NEW MEXICO	CO. OF NEW MEXICO	CO. OF INDIANA
3	3				INC.
4 NAME OF PLANT	4 LONGVIEW	PERSON	PRAGER	REEVES	ORESSER
5 UTILITY-PLANT CODE	5 401500-0100	403500-0100	403500-0200	403500-0300	404500-0100
6 STATE	6 WASHINGTON	NEW MEXICO	NEW MEXICO	NEW MEXICO	INDIANA
7 COUNTY	7 COWLITZ	BERNALILLO	BERNALILLO	BERNALILLO	VIGO
8 AIR QUALITY CONTROL REGION NO. ^{1/} - WATER RESOURCE REGION NO. ^{2/}	8 193 17	152 13	152 13	152 13	084 05
9 PLANT CAPACITY (MW)	9 26.64	125.00	35.00	175.00	150.00
10 ANNUAL GENERATION (MWH) ^{3/}	10 382,400	382,400	1,200	1,016,600	460,700
11 PLANT HEAT RATE (BTU/KWH) ^{4/}	11 13,062	13,062	17,549	11,332	13,529
AIR QUALITY CONTROL DATA					
FUEL CONSUMPTION DATA (ANNUAL)					
12 COAL: CONSUMPTION (1,000 TONS)	12				301.00
13 AVERAGE HEAT CONTENT (BTU/LB)	13	6,190			10,346
14 AVERAGE SULFUR CONTENT (%)	14				4.11
15 AVERAGE ASH CONTENT (%)	15				13.20
16 AVERAGE MOISTURE CONTENT (%)	16	45.00			14.56
17 OIL: CONSUMPTION (1,000 BARRELS)	17		88.00	171.20	38.20
18 AVERAGE HEAT CONTENT (BTU/GAL)	18		140,375	140,375	140,000
19 AVERAGE SULFUR CONTENT (%)	19		.50	.50	.31
20 GAS: CONSUMPTION (1,000 MCF)	20		4,024.60	15.90	
21 AVERAGE HEAT CONTENT (BTU/CU.FT.)	21		1,102	1,102	
PLANT EQUIPMENT DATA					
22 BOILERS: - TOTAL NO.	22	1	4	5	8
23 - NO. OF WET BOTTOM	23				7
24 - NO. WITH FLY ASH REINJECTION	24				
25 - NO. WITH MECHANICAL PRECIPITATORS	25				
26 - NO. WITH ELECTROSTATIC PRECIPITATORS	26				
27 - NO. WITH COMBINATION PRECIPITATORS ^{5/}	27				
28 - NO. WITH DESULFURIZATION SYSTEMS	28				
29 EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER ^{6/}	29		7.00	15.00	15.00
30 MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30				
31 TESTED, LOW - HIGH	31				
32 ESTIMATED, LOW - HIGH	32				
33 ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY ^{6/} : DESIGN, LOW - HIGH	33				
34 TESTED, LOW - HIGH	34				
35 EST., LOW - HIGH	35				
36 DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36				
37 TESTED, LOW - HIGH	37				
38 ESTIMATED, LOW - HIGH	38				
PLANT OPERATING DATA AND COST OF EQUIPMENT					
39 EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	39		.01		25.83
40 SULFUR DIOXIDE (1,000 TONS)	40		.15		24.29
41 NITROGEN OXIDES (1,000 TONS)	41		.98		4.60
42 STACKS: - TOTAL NO.	42	2	4	5	4
43 - HEIGHT (FEET), LOWEST - HIGHEST ^{7/}	43	300.00	66.00	68.50	118.30
44 COMBUSTION CYCLE ADDITIVES (1,000 TONS) ^{8/}	44				303.00
45 TOTAL ASH: COLLECTED (1,000 TONS) ^{9/}	45				32.55
46 SOLO (1,000 TONS) ^{10/}	46				
47 TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47				
48 EQUIVALENT OF ACID COLLECTED (1,000 TONS) ^{11/}	48				
49 ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	49				
50 INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50				
51 ELECTROSTATIC PRECIPITATORS (\$1,000)	51				
52 COMBINATION PRECIPITATORS (\$1,000) ^{4/}	52				
53 DESULFURIZATION SYSTEMS (\$1,000)	53				
54 STACKS (\$1,000)	54	250.00		17.80	164.00
55 ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55				44.00
56 REVENUES FROM SALE OF ASH (\$1,000)	56				
57 SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57				
58 REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58				
59 TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) ^{12/}	59				44.00
60 TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60				
WATER QUALITY CONTROL DATA					
61 COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R COLUMBIA	M	M	R WABASH
62 AVERAGE RATE OF WITHDRAWAL (CFS)	62		3.30	.68	3.50
63 AVERAGE RATE OF DISCHARGE (CFS)	63		1.70	.35	.60
64 AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED ^{13/}	64		1.60	.33	2.90
65 PEAK LOAD MONTH: SUMMER - WINTER ^{14/}	65				1.33
66 MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66				92.00
67 AT OUTFALL, SUMMER - WINTER	67				103.00
68 AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	68				7,908.00
69	69				12,340.00
70 FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O ^{15/}	70				
71 CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71	3.50	6.93	.87	2.50
72 CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	1.46	13.88	.40	52.16
73 LIME (TONS), COOLING WATER - BOILER MAKEUP	73				24.20
74 ALUM (TONS), COOLING WATER - BOILER MAKEUP	74				40.00
75 CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75		2.10		
76 OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76	YES	YES	YES	YES
77 SEWAGE DISPOSAL: METHOD PS, ST, SW, OT ^{16/}	77	DT	ST	ST/PS	ST
78 RECEIVING WATER BODY	78				R WABASH
79 POND DISCHARGE ^{17/}	79				10.50
80 SUSPENDED SOLIDS (PPH), BOILER BLOWDOWN - ASH SETTLING	80				5.00
81 VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	81				597.00
82	82				
COOLING FACILITY DATA					
83 NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	83	5	33.30		6
84 ONCE THROUGH COOLING (SALINE)	84				221.00
85 COOLING PONDS (S)	85				
86 COOLING TOWER(S)	86				
87 COMBINATION ^{18/}	87		4	125.00	4
88 COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1924	1932	1951	1957
89 DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST ^{19/}	89			1938	1946
90 TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90		68.00	222.40	15.00
91 TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91				75.50
CAPITAL COSTS OF COOLING FACILITIES					
92 ONCE THROUGH COOLING SYSTEMS (\$1,000)	92		500.00		243.00
93 COOLING PONDS (\$1,000)	93				
94 COOLING TOWERS (\$1,000)	94			360.00	135.00
ANNUAL COOLING WATER EXPENSES					
95 OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95				33.00
96 COST OF CHEMICAL ADDITIVES (\$1,000)	96		5.50		16.57
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES					
97 OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97		4.41		12.00
98 COST OF CHEMICAL ADDITIVES (\$1,000)	98		2.37	7.87	6.18

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

NAME OF UTILITY	1	PUBLIC SERVICE	PUBLIC SERVICE	PUBLIC SERVICE	PUBLIC SERVICE	PUBLIC SERVICE	1
NAME OF PLANT	2	CO. OF INDIANA	CO. OF INDIANA	CO. OF INDIANA	CO. OF INDIANA	CO. OF INDIANA	2
UTILITY-PLANT CODE	3	INC.	INC.	INC.	INC.	INC.	3
STATE	4	EDWARDSPORT	NOBLESVILLE	GALLAGHER	WABASH RIVER	CAYUGA	4
COUNTY	5	404500-0200	404500-0500	404500-0600	404500-0800	404500-0900	5
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	INDIANA	INDIANA	INDIANA	INDIANA	INDIANA	6
PLANT CAPACITY (MW)	7	KNOX	HAMILTON	FLOYD	VIGO	VERMILION	7
ANNUAL GENERATION (MWH) 3/	8	084 05	080 05	078 05	084 05	084 05	8
PLANT HEAT RATE (BTU/KWH) 4/	9	144.25	100.00	600.00	962.00	531.00	9
	10	639,600	246,800	3,713,600	4,793,800	2,174,400	10
	11	13,364	12,658	10,241	10,158	9,667	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	12	391.00	136.00	1,688.00	2,212.00	1,017.00	12
AVERAGE HEAT CONTENT (BTU/LB)	13	10,947	11,496	11,267	11,004	10,335	13
AVERAGE SULFUR CONTENT (%)	14	2.53	2.89	3.56	2.72	2.33	14
AVERAGE ASH CONTENT (%)	15	10.29	8.96	10.33	10.43	13.24	15
AVERAGE MOISTURE CONTENT (%)	16	13.65	11.63	11.58	12.87	14.06	16
OIL: CONSUMPTION (1,000 BARRELS)	17	10.00	3.70	51.03	78.90	14.60	17
AVERAGE HEAT CONTENT (BTU/GAL)	18	140,000	140,000	140,000	140,000	140,000	18
AVERAGE SULFUR CONTENT (%)	19	.31	.31	.31	.31	.31	19
GAS: CONSUMPTION (1,000 MCF)	20						20
AVERAGE HEAT CONTENT (BTU/CU.FT.)	21						21

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	22	4	3	4	6	1	22
- NO. OF WET BOTTOM	23	1					23
- NO. WITH FLY ASH REINJECTION	24						24
- NO. WITH MECHANICAL PRECIPITATORS	25	1	3		3		25
- NO. WITH ELECTROSTATIC PRECIPITATORS	26			4	4	1	26
- NO. WITH COMBINATION PRECIPITATORS 4/	27						27
- NO. WITH DESULFURIZATION SYSTEMS	28						28
EXCESS AIR USED (%) LOWEST BOILER - HIGHEST BOILER 5/	29	20.00	23.00	20.00	20.00	24.00	29
MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30	84.00	85.00		84.00		30
TESTED, LOW - HIGH	31	82.80	85.00				31
ESTIMATED, LOW - HIGH	32	70.00	85.00				32
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	33			99.00	98.00	98.50	33
TESTED, LOW - HIGH	34			99.00	98.50	99.00	34
EST., LOW - HIGH	35			99.00	98.50	97.00	35
DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36						36
TESTED, LOW - HIGH	37						37
ESTIMATED, LOW - HIGH	38						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	39	26.09	1.55	1.48	2.94	3.43	39
SULFUR DIOXIDE (1,000 TONS)	40	19.40	7.71	117.81	118.01	46.46	40
NITROGEN OXIDES (1,000 TONS)	41	4.06	1.23	15.30	20.08	9.19	41
STACKS: - TOTAL NO.	42	4	3	2	6	1	42
- HEIGHT (FEET), LOWEST - HIGHEST 6/	43	143.00	225.00	550.00	300.00	500.00	43
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 7/	44						44
TOTAL ASH: COLLECTED (1,000 TONS) 10/	45	20.20	8.93	170.80	218.50	132.20	45
SOLO (1,000 TONS) 11/	46				8.10		46
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
EQUIVALENT OF ACIO COLLECTED (1,000 TONS) 12/	48						48
ELEMENTAL AND EQUIVALENT OF ACIO SOLO (1,000 TONS)	49						49
INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50	40.00	90.00		236.00		50
ELECTROSTATIC PRECIPITATORS (\$1,000)	51			5,972.00	4,487.00	1,035.00	51
COMBINATION PRECIPITATORS (\$1,000) 4/	52						52
DESULFURIZATION SYSTEMS (\$1,000)	53						53
STACKS (\$1,000)	54	50.00	111.00	715.00	532.00	292.00	54
ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	52.00	44.00	173.00	328.00	136.00	55
REVENUES FROM SALE OF ASH (\$1,000)	56						56
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						57
REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						58
TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	59	52.00	44.00	173.00	328.00	136.00	59
TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60						60

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R WHITE	R WHITE	R OHIO	R WABASH	R WABASH	61
AVERAGE RATE OF WITHDRAWAL (CFD)	62	161.60	182.20	517.00	1,109.80	726.28	62
AVERAGE RATE OF DISCHARGE (CFD)	63	161.50	182.10	516.90	1,109.70	726.18	63
AVERAGE RATE OF CONSUMPTION (CFD), CALCULATED - RERORTED 14/	64	1.39	1.57	4.45	9.54	6.25	64
PEAK LOAD MONTH: SUMMER - WINTER 15/	65	JUL FEB	JUL FEB	JUN FEB	JUL JAN	JUN FEB	65
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	87.00 40.00	83.00 35.00	83.00 45.00	77.00 38.00	80.00 37.00	66
AT CUTFALL, SUMMER - WINTER	67	104.00 68.00	96.00 50.00	108.00 83.00	97.00 58.00	101.00 65.00	67
AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFD): SUMMER - WINTER	68	14,300.00	15,500.00	55,800.00	10,580.00	6,688.00	68
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, 16/	69	14,300.00	613.00	240,700.00	8,948.00	10,870.00	69
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70						70
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71						71
LIME (TONS), COOLING WATER - BOILER MAKEUP	72			6.00	265.81	135.00	72
ALUM (TONS), COOLING WATER - BOILER MAKEUP	73	9.15	1.80	13.00	88.00	68.65	73
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74	10.00	2.00	9.13			74
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75	15.50	2.75	3.00			75
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 17/	76	YES	YES	YES	YES	YES	76
RECEIVING WATER BODY	77	SW	ST	ST	ST	OT	77
POND DISCHARGE 18/	78	R WHITE	ST	ST	ST	OT	78
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79	11.00	10.50	9.00	9.00	8.50	79
VOLUME (1,000 CU.FT./YR.), BOILER BLOWDOWN	80	5.00	5.00	5.00	5.00	5.00	80
	81	45,000.00	19.30	53,000.00	30,800.00	56,206.39	81
	82						82

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	83	3	130.00	2	100.00	4	600.00	6	962.00	1	531.00	83
ONCE THROUGH COOLING (SALINE)	84											84
COOLING POND(S)	85											85
COOLING TOWER(S)	86											86
COMBINATIONS 19/	87											87
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1943 1951	1950	1958	1961	1953	1968			1970		88
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 20/	89	12.80 15.80	15.50	18.70	15.70	22.50				16.00		89
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFD)	90	290.20	174.80	676.00	1,044.00	593.00				593.00		90
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFD)	91	290.20	174.80	676.00	1,044.00	593.00				593.00		91

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	511.00	532.00	2,462.00	2,998.00	1,540.00	92
COOLING PONDS (\$1,000)	93						93
COOLING TOWERS (\$1,000)	94		191.00				94

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	16.00	11.00	110.00	239.00	58.00	95
COST OF CHEMICAL ADDITIVES (\$1,000)	96	3.00	2.00	4.00	9.00	14.00	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	87.00	36.00	179.00	299.00	132.00	97
COST OF CHEMICAL ADDITIVES (\$1,000)	98	12.00	3.00	56.00	25.00	28.00	98

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	PUBLIC SERVICE CO OF NEW HAMPSHIRE	1	PUBLIC SERVICE CO OF NEW HAMPSHIRE	1	PUBLIC SERVICE ELECTRIC & GAS CO.	1	PUBLIC SERVICE ELECTRIC & GAS CO.	1	PUBLIC SERVICE ELECTRIC & GAS CO.
2	NAME OF PLANT	2	MERRIMACK	2	SCHILLER	2	BERGEN	2	BURLINGTON	2	ESSEX
3	UTILITY-PLANT CODE	3	405000-1100	3	405000-1400	3	405500-0100	3	405500-0200	3	405500-0300
4	STATE	4	NEW HAMPSHIRE	4	NEW HAMPSHIRE	4	NEW JERSEY	4	NEW JERSEY	4	NEW JERSEY
5	COUNTY	5	MERRIMACK	5	ROCKINGHAM	5	BERGEN	5	BURLINGTON	5	ESSEX
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	121	01	121	01	043	02	045	02	043
7	PLANT CAPACITY (MW)	7	459.24	7	178.75	7	650.00	7	491.00	7	329.00
8	ANNUAL GENERATION (MMH) 3/	8	2,467,800	8	1,057,800	8	2,908,200	8	2,116,400	8	1,061,800
9	PLANT HEAT RATE (BTU/KWH) 3/	9	10,013	9	11,757	9	9,605	9	11,454	9	16,055
10	AIR QUALITY CONTROL DATA										
11	FUEL CONSUMPTION DATA (ANNUAL)										
12	COAL: CONSUMPTION (1,000 TONS)	12	930.00	12		12	697.70	12		12	
13	AVERAGE HEAT CONTENT (BTU/LB)	13	13,271	13		13	12,105	13		13	
14	AVERAGE SULFUR CONTENT (%)	14	2.33	14		14	1.96	14		14	
15	AVERAGE ASH CONTENT (%)	15	6.75	15		15	10.93	15		15	
16	AVERAGE MOISTURE CONTENT (%)	16	5.15	16		16	5.81	16		16	
17	OIL: CONSUMPTION (1,000 BARRELS)	17		17	1,995.00	17	1,226.20	17	4,007.30	17	2,714.20
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	148,484	18	148,432	18	144,048	18	143,936	18	144,561
19	AVERAGE SULFUR CONTENT (%)	19	1.00	19	1.96	19	.31	19	.46	19	.44
20	GAS: CONSUMPTION (1,000 MCF)	20		20		20	3,498.50	20		20	543.80
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21		21		21	1,035	21		21	1,035
22	PLANT EQUIPMENT DATA										
23	BOILERS: - TOTAL NO.	23	2	23	5	23	2	23	6	23	11
24	- NO. OF WET BOTTOM	24	2	24		24	2	24		24	
25	- NO. WITH FLY ASH REINJECTION	25		25		25		25		25	
26	- NO. WITH MECHANICAL PRECIPITATORS	26		26		26		26		26	
27	- NO. WITH ELECTROSTATIC PRECIPITATORS	27	2	27	2	27	2	27	1	27	3
28	- NO. WITH COMBINATION PRECIPITATORS 4/	28		28		28		28		28	
29	- NO. WITH DESULFURIZATION SYSTEMS	29		29		29		29		29	
30	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	30	16.00	30	12.50	30	20.00	30	15.00	30	20.00
31	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	31		31		31		31		31	
32	TESTED, LOW - HIGH	32		32		32		32		32	
33	ESTIMATED, LOW - HIGH	33		33		33		33		33	
34	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/:	34		34		34		34		34	
35	DESIGN, LOW - HIGH	35	90.00	35	92.40	35	98.00	35	95.00	35	97.00
36	TESTED, LOW - HIGH	36	90.00	36	92.40	36	98.00	36	95.00	36	97.00
37	ESTIMATED, LOW - HIGH	37	90.00	37	92.40	37	98.00	37	95.00	37	97.00
38	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	38		38		38		38		38	
39	TESTED, LOW - HIGH	39		39		39		39		39	
40	ESTIMATED, LOW - HIGH	40		40		40		40		40	
41	PLANT OPERATING DATA AND COST OF EQUIPMENT										
42	EST. TOTAL ANNUAL PLANT EMISSIONS 7/:	42		42		42		42		42	
43	PARTICULATE MATTER (1,000 TONS)	43	.82	43	.34	43	2.22	43	.07	43	.22
44	SULFUR DIOXIDE (1,000 TONS)	44	42.47	44	13.16	44	28.08	44	6.18	44	4.01
45	NITROGEN OXIDES (1,000 TONS)	45	25.60	45	4.41	45	13.85	45	8.84	45	6.09
46	STACKS: - TOTAL NO.	46	2	46	2	46	2	46	2	46	2
47	- HEIGHT (FEET), LOWEST - HIGHEST 8/	47		47		47		47		47	
48	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	48	225.00	48	317.00	48	137.00	48	305.50	48	224.80
49	TOTAL ASH: COLLECTED (1,000 TONS) 10/	49	61.60	49	20	49	76.20	49	225.30	49	273.00
50	SOLD (1,000 TONS) 11/	50	56.60	50		50	12.00	50		50	
51	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	51		51		51		51		51	
52	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	52		52		52		52		52	
53	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	53		53		53		53		53	
54	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	54	766.00	54	332.00	54	1,898.60	54	390.00	54	318.00
55	ELECTROSTATIC PRECIPITATORS (\$1,000)	55		55		55		55		55	
56	COMBINATION PRECIPITATORS (\$1,000) 4/	56		56		56		56		56	
57	DESULFURIZATION SYSTEMS (\$1,000)	57		57		57		57		57	
58	STACKS (\$1,000)	58	393.00	58	116.00	58	829.50	58	124.50	58	158.90
59	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	59	114.10	59		59	185.00	59		59	
60	REVENUES FROM SALE OF ASH (\$1,000)	60	74.00	60		60	12.70	60		60	
61	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	61		61		61		61		61	
62	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	62		62		62		62		62	
63	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	63	121.60	63	7.50	63	185.00	63		63	
64	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	64	74.00	64		64	12.70	64		64	
65	WATER QUALITY CONTROL DATA										
66	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	66	R MERRIMACK	66	R PISCATAQUA	66	C OVERPECK	66	R DELAWARE	66	R PASSAIC
67	AVERAGE RATE OF WITHDRAWAL (CFD)	67	444.00	67	252.40	67	968.00	67	709.00	67	847.00
68	AVERAGE RATE OF DISCHARGE (CFD)	68	444.00	68	252.40	68	968.00	68	709.00	68	847.00
69	AVERAGE RATE OF CONSUMPTION (CFD), CALCULATED - REPORTED 14/	69	3.82	69	2.17	69	8.32	69	6.10	69	7.28
70	PEAK LOAD MONTH:	70	AUG	70	AUG	70	JUL	70	JUL	70	JUL
71	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER 15/	71	79.00	71	70.00	71	89.00	71	84.00	71	80.00
72	AT OUTFALL, SUMMER - WINTER	72	92.00	72	87.00	72	100.00	72	96.00	72	92.00
73	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFD): SUMMER - WINTER	73	1,306.00	73	17,600.00	73	4,225.00	73	4,225.00	73	4,225.00
74	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O 16/	74	2,206.00	74	17,600.00	74	18,906.00	74		74	
75	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	75		75		75		75		75	
76	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	76	.09	76	.58	76	1.35	76		76	
77	LIME (TONS), COOLING WATER - BOILER MAKEUP	77	56.41	77	47.92	77	132.92	77	210.98	77	.39
78	ALUM (TONS), COOLING WATER - BOILER MAKEUP	78		78		78		78		78	
79	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	79		79		79		79		79	
80	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	80	27.44	80	20.54	80	852.00	80	51.00	80	270.00
81	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 17/	81	YES	81	YES	81	YES	81	YES	81	YES
82	RECEIVING WATER BODY	82	ST	82	PS	82	PS	82	PS	82	PS
83	POND DISCHARGE 18/:	83		83		83		83		83	
84	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	84		84		84		84		84	
85	VOLUME (1,000 CU.FT/YR), BOILER BLOWDOWN	85		85		85		85		85	
86	BOILER BLOWDOWN - ASH SETTLING	86		86		86		86		86	
87	BOILER BLOWDOWN - ASH SETTLING	87		87		87		87		87	
88	BOILER BLOWDOWN - ASH SETTLING	88		88		88		88		88	
89	BOILER BLOWDOWN - ASH SETTLING	89		89		89		89		89	
90	BOILER BLOWDOWN - ASH SETTLING	90		90		90		90		90	
91	BOILER BLOWDOWN - ASH SETTLING	91		91		91		91		91	
92	COOLING FACILITY DATA										
93	NO. OF UNITS AND CAPACITY (MW) USING 19/:	93	2	93	4	93	2	93	7	93	7
94	ONCE THROUGH COOLING (FRESH)	94	459.24	94	178.75	94	650.00	94	491.00	94	329.00
95	ONCE THROUGH COOLING (SALINE)	95		95		95		95		95	
96	COOLING POND(S)	96		96		96		96		96	
97	COOLING TOWER(S)	97		97		97		97		97	
98	COMBINATION 20/	98		98		98		98		98	
99	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	99	1960	99	1949	99	1959	99	1915	99	1916
100	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 21/	100	22.00	100	26.00	100	11.20	100	18.00	100	24.80
101	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFD)	101	444.00	101	252.40	101	968.00	101	709.00	101	847.00
102	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFD)	102		102		102		102		102	
103	CAPITAL COSTS OF COOLING FACILITIES										
104	ONCE THROUGH COOLING SYSTEMS (\$1,000)	104	1,924.00	104	1,889.00	104	2,813.70	104	1,423.50	104	1,700.90
105	COOLING PONDS (\$1,000)	105		105		105		105		105	
106	COOLING TOWERS (\$1,000)	106		106		106		106		106	
107	ANNUAL COOLING WATER EXPENSES										
108	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	108	58.40	108	41.90	108	40.00	108	87.90	108	94.20
109	COST OF CHEMICAL ADDITIVES (\$1,000)	109	8.20	109	8.70	109	61.00	109	6.10	109	16.40
110	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES										
111	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	111	42.50	111	41.60	111	139.20	111	88.50	111	51.50
112	COST OF CHEMICAL ADDITIVES (\$1,000)	112	17.00	112	6.70	112	21.50	112	24.70	112	7.60

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

NAME OF UTILITY	1	PUBLIC SERVICE	PUBLIC SERVICE	PUBLIC SERVICE	PUBLIC SERVICE	PUBLIC SERVICE
NAME OF PLANT	2	ELECTRIC & GAS	ELECTRIC & GAS	ELECTRIC & GAS	ELECTRIC & GAS	ELECTRIC & GAS
UTILITY-PLANT CODE	3	CO.	CO.	CO.	CO.	CO.
STATE	4	HUDSON	KEARNY A	KEARNY B	LINDEN	MARION
COUNTY	5	405500-0500	405500-0700	405500-0800	405500-0900	405500-1000
AIR QUALITY CONTROL REGION NO. 1 - WATER RESOURCE REGION NO. 2	6	NEW JERSEY	NEW JERSEY	NEW JERSEY	NEW JERSEY	NEW JERSEY
PLANT CAPACITY (MW)	7	HUDSON	HUDSON	HUDSON	UNION	HUDSON
ANNUAL GENERATION (MWH) 2	8	043 02	043 02	043 02	043 02	043 02
PLANT HEAT RATE (BTU/KWH) 2	9	1,114.00	305.00	294.00	519.00	125.00
	10	4,578,800	1,625,200	193,800	2,144,000	2,908,200
	11	9,836	12,593	15,639	8,777	14,160

AIR QUALITY CONTROL DATA						
FUEL CONSUMPTION DATA (ANNUAL)						
COAL: CONSUMPTION (1,000 TONS)	12	711.10				
AVERAGE HEAT CONTENT (BTU/LB)	13	12,044				
AVERAGE SULFUR CONTENT (%)	14	1.30				
AVERAGE ASH CONTENT (%)	15	12.10				
AVERAGE MOISTURE CONTENT (%)	16	7.15				
OIL: CONSUMPTION (1,000 BARRELS)	17	2,953.70	791.70	2,576.70	5,655.80	1,062.50
AVERAGE HEAT CONTENT (BTU/GAL)	18	144,733	144,426	144,433	143,378	144,634
AVERAGE SULFUR CONTENT (%)	19	.47	.45	.44	1.11	.45
GAS: CONSUMPTION (1,000 MCF)	20	9,588.80				
AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,036				

PLANT EQUIPMENT DATA						
BOILERS: - TOTAL NO.	22	2	15	2	4	2
- NO. OF WET BOTTOM	23	1				
- NO. WITH FLY ASH REINJECTION	24					
- NO. WITH MECHANICAL PRECIPITATORS	25					
- NO. WITH ELECTROSTATIC PRECIPITATORS	26					
- NO. WITH COMBINATION PRECIPITATORS 4/	27	2		2		2
- NO. WITH DESULFURIZATION SYSTEMS	28					
- EXCESS AIR USED (%), LOWEST BOILER 5/	29	16.00	18.00	20.00	14.00	20.00
MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30					
TESTED, LOW - HIGH	31					
ESTIMATED, LOW - HIGH	32					
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/:	33	99.00	99.50	97.00		95.00
DESIGN, LOW - HIGH	34					
TESTED, LOW - HIGH	35		98.00			
ESTIMATED, LOW - HIGH	36					
DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	37					
TESTED, LOW - HIGH	38					
ESTIMATED, LOW - HIGH	39					

PLANT OPERATING DATA AND COST OF EQUIPMENT						
EST. TOTAL ANNUAL PLANT EMISSIONS 2/:	39	1.47	.13	.01	.95	.01
PARTICULATE MATTER (1,000 TONS)	40	22.78	1.20	3.80	21.06	1.60
SULFUR DIOXIDE (1,000 TONS)	41	14.78	1.75	5.68	12.47	2.34
NITROGEN OXIDES (1,000 TONS)	42	2	3	2	5	1
STACKS: - TOTAL NO.	43	325.50	498.00	277.80	276.30	225.50
- HEIGHT (FEET), LOWEST - HIGHEST 1/	44					
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 2/	45					
TOTAL ASH: COLLECTED (1,000 TONS) 3/	46	106.00				
SOLD (1,000 TONS) 4/	47				.20	
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	48					
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 5/	49					
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	50					
INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	51	2,767.30				182.00
ELECTROSTATIC PRECIPITATORS (\$1,000)	52			58.00		
COMBINATION PRECIPITATORS (\$1,000) 4/	53					
DESULFURIZATION SYSTEMS (\$1,000)	54	2,019.70	252.30	154.40	609.00	22.10
STACKS (\$1,000)	55	275.00				
ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	56					
REVENUES FROM SALE OF ASH (\$1,000)	57				1.40	
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	58					
REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	59					
TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 5/	60	275.00			1.40	
TOTAL BYPRODUCT SALES REVENUES (\$1,000)						

WATER QUALITY CONTROL DATA						
COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R HACKENSACK	P HACKENSACK	R HACKENSACK	O ARTHUR KILL	R HACKENSACK
AVERAGE RATE OF WITHDRAWAL (CFD)	62	1,382.00	514.00	440.00	528.00	176.00
AVERAGE RATE OF DISCHARGE (CFD)	63	1,382.00	514.00	440.00	528.00	176.00
AVE. RATE OF CONSUMPTION (CFD), CALCULATED - REPORTED 1/	64	11.89	4.42	3.78	4.54	1.51
PEAK LOAD MONTH: JUL OEC	65	JUL OEC	JUL OEC	JUL OEC	JUL OEC	JUL OEC
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	85.00	83.00	83.00	77.00	85.00
AT OUTFALL, SUMMER - WINTER	67	99.00	94.00	96.00	91.00	97.00
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFD): SUMMER - WINTER	68					
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OIR	69					
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70					
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71	367.19	.43		10.10	8.20
LIME (TONS), COOLING WATER - BOILER MAKEUP	72		2.44	2.44	3,581.47	
ALUM (TONS), COOLING WATER - BOILER MAKEUP	73					
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74					
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75	765.00	160.00	160.00	350.00	143.00
SEWAGE DISPOSAL: METHOD PS, ST, SW, OTIR	76	YES	YES	YES	YES	YES
RECEIVING WATER BODY	77	PS	PS	ST	PS	PS
POND DISCHARGE 1/:	78					
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79	6.90	10.50	8.80		10.50
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	80	5.30	5.00	2.00		5.00
	81		1,600.00	64.00		281.00
	82	130.92				

COOLING FACILITY DATA						
NO. OF UNITS AND CAPACITY (TWH) USING 2/:	83	2	6	2	2	1
ONCE THROUGH COOLING (FRESH)	84	1,114.00	304.00	294.00	520.00	125.00
ONCE THROUGH COOLING (SALINE)	85					
COOLING PONDS 3/	86					
COOLING TOWERS 4/	87					
COMBINATIONS 5/	88	1964	1925	1953	1957	1941
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 2/	89	12.40	10.40	12.50	15.20	12.30
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFD)	90	1,342.00	1,081.00	440.00	528.00	176.00
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFD)	91	1,382.00	1,081.00	440.00	538.00	176.00

CAPITAL COSTS OF COOLING FACILITIES						
ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	4,343.80	1,086.80	990.20	1,919.20	283.40
COOLING PONDS (\$1,000)	93					
COOLING TOWERS (\$1,000)	94					

ANNUAL COOLING WATER EXPENSES						
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	60.10	81.90	81.90	63.20	39.10
COST OF CHEMICAL ADDITIVES (\$1,000)	96	48.00	15.60	15.60	23.70	11.00

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	120.70	74.00	74.00	186.70	15.70
COST OF CHEMICAL ADDITIVES (\$1,000)	98	57.60	14.60	14.60	257.40	2.10

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	PUBLIC SERVICE	PUBLIC SERVICE	PUBLIC SERVICE	PUBLIC SERVICE	PUBLIC SERVICE
2		2	ELECTRIC & GAS	ELECTRIC & GAS	CO. OF COLORADO	CO. OF COLORADO	CO. OF COLORADO
3		3	CO.	CO.			
4	NAME OF PLANT	4	MERCER	SEWAREN	ARAPHOE	CAMEO	CHEROKEE
5	UTILITY-PLANT CODE	5	405500-1100	405500-1200	406000-0200	406000-0500	406000-0800
6	STATE	6	NEW JERSEY	NEW JERSEY	COLORADO	COLORADO	COLORADO
7	COUNTY	7	MERCER	MIDDLESEX	DENVER	MESA	ADAMS
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	8	045 02	043 02	036 10	035 14	036 10
9	PLANT CAPACITY (MM)	9	653.00	820.00	250.50	75.00	801.30
10	ANNUAL GENERATION (MMH) 3/	10	455,900	4,316,700	1,089,200	403,600	5,011,200
11	PLANT HEAT RATE (BTU/KWH) 3/	11		10,834	12,233	11,477	10,400
AIR QUALITY CONTROL DATA							
FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)	12	1,181.80		331.09	134.26	1,557.03
13	AVERAGE HEAT CONTENT (BTU/LB)	13	12,283		9,974	11,300	10,839
14	AVERAGE SULFUR CONTENT (%)	14	1.89		.53	.53	.50
15	AVERAGE ASH CONTENT (%)	15	11.50		7.20	9.20	7.50
16	AVERAGE MOISTURE CONTENT (%)	16	5.75		16.50	9.00	11.20
17	OIL: CONSUMPTION (1,000 BARRELS)	17		7,349.70			
18	AVERAGE HEAT CONTENT (BTU/GAL)	18		146,641			
19	AVERAGE SULFUR CONTENT (%)	19		.83			
20	GAS: CONSUMPTION (1,000 MCF)	20	2,882.10	1,346.10	7,880.35	1,862.11	21,319.26
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,034	1,037	857	858	856
PLANT EQUIPMENT DATA							
22	BOILERS: - TOTAL NO.	22	2	5	4	2	4
23	- NO. OF NET BOTTOM	23	2				
24	- NO. WITH FLY ASH REINJECTION	24					
25	- NO. WITH MECHANICAL PRECIPITATORS	25			1	1	
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26					
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27	2	4	3	1	4
28	- NO. WITH DESULFURIZATION SYSTEMS	28					
29	- EXCESS AIR USED (%): LOWEST BOILER - HIGHEST BOILER 5/	29					
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30	15.00	18.00	20.00	26.30	28.50
31	TESTED, LOW - HIGH	31				28.50	85.00
32	ESTIMATED, LOW - HIGH	32				75.00	75.00
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	33	99.00	95.00	97.00	97.40	99.60
34	TESTED, LOW - HIGH	34	99.00			99.60	97.40
35	EST., LOW - HIGH	35	99.00			99.30	98.80
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36					
37	TESTED, LOW - HIGH	37					
38	ESTIMATED, LOW - HIGH	38					
PLANT OPERATING DATA AND COST OF EQUIPMENT							
39	EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	39	.88	.56	.51	.18	11.43
40	SULFUR DIOXIDE (1,000 TONS)	40	43.78	20.47	3.44	1.39	15.26
41	NITROGEN OXIDES (1,000 TONS)	41	18.29	16.47	4.02	1.57	17.64
42	STACKS: - TOTAL NO.	42	2	5	2	2	3
43	- HEIGHT (FEET), LOWEST - HIGHEST 6/	43	325.50	325.00	250.00	150.00	200.00
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 7/	44					
45	TOTAL ASH: COLLECTED (1,000 TONS) 8/	45	174.40		23.43	10.00	111.32
46	SOLD (1,000 TONS) 9/	46	22.50				4.72
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47					
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 10/	48					
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49					
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50			72.10	48.30	
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51	5,000.00				
52	COMBINATION PRECIPITATORS (\$1,000) 4/	52		1,384.00	1,364.09	275.83	2,997.28
53	DESULFURIZATION SYSTEMS (\$1,000)	53					
54	STACKS (\$1,000)	54	583.40		193.45	113.20	760.61
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	108.50	782.00	107.05	61.80	241.95
56	REVENUES FROM SALE OF ASH (\$1,000)	56	16.80				13.90
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57					
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58					
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 11/	59	108.50		107.04	61.80	241.95
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60	16.80				13.90
WATER QUALITY CONTROL DATA							
61	COOLING WATER: SOURCE (CONDS. R, L, O, C, M, H, D, EXPL. H, P, OTHER)	61	R DELAWARE	O ARTHUR KILL	RW PLATTE	O U.S. & R. CANAL	R PLATTE
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	1,056.00	1,302.00	3.40	67.30	14.18
63	AVERAGE RATE OF DISCHARGE (CFS)	63	1,056.00	1,302.00	1.75	67.00	1.50
64	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 12/	64	9.08	11.20	1.65	.30	12.68
65	PEAK LOAD MONTH: SUMMER - WINTER	65	JUL OEC	JUL OEC	JUL OEC	JUL OEC	JUL OEC
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	85.00	40.00	84.00	50.00	69.00
67	AT OUTFALL, SUMMER - WINTER	67	96.00	51.00	84.00	54.00	78.00
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	68	4,225.00			7,337.00	
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C18/	69	18,906.00			2,056.00	
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70					
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71	.75		9.03	2.08	.17
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	72	1.69	334.11		.09	.06
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	73					
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74	99.00	495.00	3.00		114.75
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75	YES	YES	YES	YES	YES
76	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT13/	76	ST	PS	PS	ST	PS
77	POND DISCHARGE 10/ PH.	77					
78	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	78	6.90	10.50	8.80	8.80	8.50
79	VOLUME (1,000 CU.FT./YR), BOILER BLOWDOWN	79	4.10	5.00	420.00	420.00	
80		80					
81		81					
82		82	203.65	3,150.00	28,300.00		28,050.00
COOLING FACILITY DATA							
83	NO. OF UNITS AND CAPACITY (MM) USING: ONCE THROUGH COOLING (FRESH)	83	2	652.00			
84	ONCE THROUGH COOLING (SALINE)	84			5	820.00	
85	COOLING PONDS(S)	85					
86	COOLING TOWER(S)	86			4	250.50	
87	COMBINATIONS 14/	87				2	75.00
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1960	1948	1962	1950	1957
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 15/	89	11.20	10.90	14.70	19.70	21.30
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	1,056.00		1,302.00	346.00	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	1,056.00		1,302.00		77.80
CAPITAL COSTS OF COOLING FACILITIES							
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	2,918.40	2,873.50		555.00	
93	COOLING PONDS (\$1,000)	93				53.00	
94	COOLING TOWERS (\$1,000)	94			755.00		2,185.00
ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	41.20	76.20	72.29	3.82	30.14
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	11.80	31.80	27.92		96.22
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	78.20	91.40	3.23	.32	15.39
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	10.40	59.10	1.59	.71	5.03

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

NAME OF UTILITY	1	PUBLIC SERVICE CO. OF COLORADO	PUBLIC SERVICE CO. OF COLORADO	PUBLIC SERVICE CO. OF OKLAHOMA	PUBLIC SERVICE CO. OF OKLAHOMA	PUBLIC SERVICE CO. OF OKLAHOMA
NAME OF PLANT	2	VALMONT	ZUNI	LAWTON	NORTHEASTERN	SOUTHWESTERN
UTILITY-PLANT CODE	3	406000-1200	406000-1300	406300-0300	406300-0500	406300-0600
STATE	4	COLORADO	COLORADO	OKLAHOMA	OKLAHOMA	OKLAHOMA
COUNTY	5	BOULDER	DENVER	COMANCHE	ROGERS	CAHON
AIR QUALITY CONTROL REGION NO. 1 - WATER RESOURCE REGION NO. 2	6	036	10	036	11	189
PLANT CAPACITY (MW)	7	281.75	115.25	29.50	642.50	483.00
ANNUAL GENERATION (MWH) 2	8	833,300	496,900		4,183,500	2,851,200
PLANT HEAT RATE (BTU/KWH) 3	9	11,931	14,588		9,721	10,606

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	12	271.17				
AVERAGE HEAT CONTENT (BTU/LB)	13	10,621				
AVERAGE SULFUR CONTENT (%)	14	.67				
AVERAGE ASH CONTENT (%)	15	8.30				
AVERAGE MOISTURE CONTENT (%)	16	15.00				
OIL: CONSUMPTION (1,000 BARRELS)	17		260.82			1.82
AVERAGE HEAT CONTENT (BTU/GAL)	18		149,500			138,075
AVERAGE SULFUR CONTENT (%)	19		1.25			.33
GAS: CONSUMPTION (1,000 MCF)	20	5,099.19	8,083.03	4.00	37,352.00	28,002.00
AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	820	856	989	1,089	1,080

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	22	9	3	5	2	4
- NO. OF WET BOTTOM	23	4				
- NO. WITH FLY ASH REINJECTION	24					
- NO. WITH MECHANICAL PRECIPITATORS	25		1			
- NO. WITH ELECTROSTATIC PRECIPITATORS	26					
- NO. WITH COMBINATION PRECIPITATORS 4	27	1	1			
- NO. WITH DESULFURIZATION SYSTEMS	28					
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5	29	27.00	28.50	15.00	28.50	8.00
MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30					
TESTED, LOW - HIGH	31					
ESTIMATED, LOW - HIGH	32					
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 5: DESIGN, LOW - HIGH	33					
TESTED, LOW - HIGH	34	98.10	98.10			
EST., LOW - HIGH	35	84.70				
DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36					
TESTED, LOW - HIGH	37					
ESTIMATED, LOW - HIGH	38					

PLANT OPERATING DATA AND COST OF EQUIPMENT

ESY. TOTAL ANNUAL PLANT EMISSIONS 7: PARTICULATE MATTER (1,000 TONS)	39	2.80				
SULFUR DIOXIDE (1,000 TONS)	40	3.56				
NITROGEN OXIDES (1,000 TONS)	41	3.10				
STACKS: - TOTAL NO.	42	3		2		5.46
- HEIGHT (FEET), LOWEST - HIGHEST 8	43	250.00	350.00	45.00	292.00	114.00
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9	44					
TOTAL ASH: COLLECTED (1,000 TONS) 10	45	19.93				
SOLD (1,000 TONS) 11	46					
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47					
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12	48					
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49					
INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50		89.06			
ELECTROSTATIC PRECIPITATORS (\$1,000)	51					
COMBINATION PRECIPITATORS (\$1,000) 4	52	688.66	307.90			
DESULFURIZATION SYSTEMS (\$1,000)	53					
STACKS (\$1,000)	54	327.40	123.90			
ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	56.46				
REVENUES FROM SALE OF ASH (\$1,000)	56					
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57					
REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58					
TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13	59	56.46	3.87			
TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60					

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	C BOULDER	R PLATTE	W	L OOLOGAH	O FT. COBB RESER
AVERAGE RATE OF WITHDRAWAL (CFD)	62	14.41	34.60	.01	9.30	6.54
AVERAGE RATE OF DISCHARGE (CFD)	63	7.74	33.45	.01	1.16	.93
AVE. RATE OF CONSUMPTION (CFD), CALCULATED - REPORTED 14	64	6.67	1.15		8.14	5.51
PEAK LOAD MONTH: SUMMER - WINTER 15	65	JUL	JUL		JUL	JAN
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66		74.00	48.00	85.00	39.00
AT OUTFALL, SUMMER - WINTER	67		90.00	60.00	94.00	80.00
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFD): SUMMER - WINTER	68				2,451.00	173.00
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, CIB	69					36.00
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70					
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71	1.47	5.99	8.11	43.89	.01
LIME (TONS), COOLING WATER - BOILER MAKEUP	72	.06			49.84	26.52
ALUM (TONS), COOLING WATER - BOILER MAKEUP	73				13.52	22.80
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74				5.13	280.94
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75	.28	.75		50.14	40.72
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 16	76	YES	YES	YES	YES	YES
RECEIVING WATER BODY	77	ST	PS	PS	OT	OT
POND DISCHARGE 17	78	O LEECHING FIELD			C FOUR MILE	R WASHITA
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79	9.50				
VOLUME (1,000 CU.FT./YR), BOILER BLOWDOWN - ASH SETTLING	80	750.00				
	81					
	82	1,638.00				

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING 20	83	5	281.75	1	75.00	4	29.50	2	642.50	3	483.00
ONCE THROUGH COOLING (FRESH)	84			1	40.25						
COOLING PONDS (S)	85										
COOLING TOWERS (S)	86										
COMBINATIONS 21	87										
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1924	1964	1948	1954	1937	1946	1961	1969	1952	1967
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 22	89		10.00	15.00	21.30	14.00	19.00	15.50	23.00	17.00	20.80
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFD)	90		467.10		165.00		118.00		742.00		548.20
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFD)	91				64.60						90

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS (\$1,000)	92				107.00						
COOLING PONDS (\$1,000)	93		978.00								
COOLING TOWERS (\$1,000)	94				482.00						

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95		13.51		23.29						
COST OF CHEMICAL ADDITIVES (\$1,000)	96		.08		10.20			46.00		37.00	

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97		2.77		15.76						
COST OF CHEMICAL ADDITIVES (\$1,000)	98		.79		12.78			17.00		11.00	

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	11	PUBLIC SERVICE CO. OF OKLAHOMA	PUBLIC SERVICE CO. OF OKLAHOMA	PUERTO RICO WATER RESOURCES AUTH.	PUERTO RICO WATER RESOURCES AUTH.	PUERTO RICO WATER RESOURCES AUTH.
2	NAME OF PLANT	12	TULSA	WELEETKA	PALO SECO	SAN JUAN	SOUTH COAST
3	UTILITY-PLANT CODE	13	406300-0700	406300-0800	407700-0100	407700-0200	407700-0300
4	STATE	14	OKLAHOMA	OKLAHOMA	PUERTO RICO	PUERTO RICO	PUERTO RICO
5	COUNTY	15	TULSA	OKFUSKEE	TOA BAJA	SAN JUAN	GUAYANILLA
6	WATER QUALITY CONTROL REGION NO. 1 - WATER RESOURCE REGION NO. 2	16	186	11	244	23	244
7	PLANT CAPACITY (MW)	17	482.00	83.00	644.80	646.10	287.50
8	ANNUAL GENERATION (MWH) 2	18	2,858,400	75,600	2,759,100	2,968,700	1,949,800
9	PLANT HEAT RATE (BTU/KWH) 2	19	10,828	17,306	10,454	11,516	10,279
10		20					
11		21					
AIR QUALITY CONTROL DATA							
FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)	12					
13	AVERAGE HEAT CONTENT (BTU/LB)	13					
14	AVERAGE SULFUR CONTENT (%)	14					
15	AVERAGE ASH CONTENT (%)	15					
16	AVERAGE MOISTURE CONTENT (%)	16					
17	OIL: CONSUMPTION (1,000 BARRELS)	17			4,829.12	6,336.87	3,199.00
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	138,000		150,140	144,102	152,434
19	AVERAGE SULFUR CONTENT (%)	19			2.28	2.04	2.62
20	GAS: CONSUMPTION (1,000 MCF)	20	30,111.00	1,217.00			
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,028	1,075			
PLANT EQUIPMENT DATA							
22	BOILERS: - TOTAL NO.	22	4	6	4	10	4
23	- NO. OF WET BOTTOM	23					
24	- NO. WITH FLY ASH REINJECTION	24					
25	- NO. WITH MECHANICAL PRECIPITATORS	25					
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26					
27	- NO. WITH COMBINATION PRECIPITATORS 2	27					
28	- NO. WITH DESULFURIZATION SYSTEMS	28					
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 2	29	7.00	15.00	12.00	12.20	12.00
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30					
31	TESTED, LOW - HIGH	31					
32	ESTIMATED, LOW - HIGH	32					
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 2/3 DESIGN, LOW - HIGH	33					
34	TESTED, LOW - HIGH	34					
35	EST., LOW - HIGH	35					
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36					
37	TESTED, LOW - HIGH	37					
38	ESTIMATED, LOW - HIGH	38					
PLANT OPERATING DATA AND COST OF EQUIPMENT							
39	EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	39			.81	1.06	.56
40	SULFUR DIOXIDE (1,000 TONS)	40			37.03	43.05	28.03
41	NITROGEN OXIDES (1,000 TONS)	41	5.87	.24	10.67	13.87	7.03
42	STACKS: - TOTAL NO.	42	7	3	6	11	3
43	- HEIGHT (FEET), LOWEST - HIGHEST 2	43					
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 2	44	175.00	184.00	113.00	196.00	221.60
45	TOTAL ASH: COLLECTED (1,000 TONS) 2	45				160.00	191.00
46	SOLD (1,000 TONS) 2	46					155.00
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47					205.00
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 2	48					
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49					
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50					
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51					
52	COMBINATION PRECIPITATORS (\$1,000) 2	52					
53	DESULFURIZATION SYSTEMS (\$1,000)	53					
54	STACKS (\$1,000)	54					
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55					
56	REVENUES FROM SALE OF ASH (\$1,000)	56					
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57					
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58					
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 2	59				69.40	
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60					
WATER QUALITY CONTROL DATA							
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	ARKANSAS	NORTH CANADIAN	SALT WATER	SALT WATER	SALT WATER
62	AVERAGE RATE OF WITHDRAWAL (ICFS)	62	5.93	.59	1,006.00	1,300.00	404.18
63	AVERAGE RATE OF DISCHARGE (ICFS)	63	1.48	.17	1,006.00	1,300.00	404.18
64	AVERAGE RATE OF CONSUMPTION (ICFS), CALCULATED - REPORTED 2	64	4.45	.42	8.65	11.18	3.48
65	PEAK LOAD MONTH: SUMMER - WINTER 2	65	JUL	JAN	AUG	NOV	NOV
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	82.00	35.00	85.00	48.00	80.00
67	AT OUTFALL, SUMMER - WINTER	67	94.00	81.00	79.00	91.00	95.00
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (ICFS): SUMMER - WINTER	68	3,463.00	341.00	1,006.00	1,300.00	404.18
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OR	69	1,466.00	274.00	1,006.00	1,300.00	404.18
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70	20.30	.16			
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71	15.39	2.25	1.32	5.04	.35
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	72		13.55	438.15	1,075.74	.14
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	73					
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74					
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75	25.32	.86	1.48	2.84	1.00
76	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 2	76	YES	YES	YES	YES	YES
77	POND DISCHARGE 2	77	PS	ST			
78	BOILER BLOWDOWN - ASH SETTLING	78					
79	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79					
80	VOLUME (1,000 CU.FT/YR), BOILER BLOWDOWN	80					
81		81					
82		82					
COOLING FACILITY DATA							
83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	83			4	568.00	10
84	ONCE THROUGH COOLING (ISALINE)	84					4
85	COOLING PONDS	85					253.00
86	COOLING TOWER(S)	86	9	482.00	3	83.00	
87	COMBINATIONS 2	87					
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1947	1958	1948	1955	1960
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 2	89	14.50	17.00	14.50	19.00	15.00
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (ICFS)	90	724.80	187.20	1,005.60	1,306.00	404.20
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (ICFS)	91			1,400.30	1,306.00	404.00
CAPITAL COSTS OF COOLING FACILITIES							
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92					
93	COOLING PONDS (\$1,000)	93					
94	COOLING TOWERS (\$1,000)	94					
ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95					
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	48.00	4.00	3.58	6.19	6.87
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97					
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	21.00	3.00	47.38	94.44	61.81

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	ROCHESTER GAS & ELECTRIC CORP.	ROCHESTER GAS & ELECTRIC CORP.	ROCHESTER GAS & ELECTRIC CORP.	SALT R. PROJ. AGR IMPR PWR OIST	SALT R. PROJ. AGR IMPR PWR OIST	1
2	NAME OF PLANT	2	ROCHESTER 3	ROCHESTER 7	ROCHESTER 13	AGUA FRIA 2	CROSSCUT	2
3	UTILITY-PLANT CODE	3	422000-0500	422000-0700	422000-0800	433000-0100	433000-0300	3
4	STATE	4	NEW YORK	NEW YORK	NEW YORK	ARIZONA	ARIZONA	4
5	COUNTY	5	MONROE	MONROE	WAYNE	MARICOPA	MARICOPA	5
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	160 04	160 04	160 04	015 15	015 15	6
7	PLANT CAPACITY (MW)	7	206.20	252.60	420.00	390.47	30.00	7
8	ANNUAL GENERATION (MWH) 3/	8	674,800	1,406,500	2,705,000	2,071,200	1,000	8
9	PLANT HEAT RATE (BTU/KWH) 4/	9	11,390	10,584		9,962	25,235	9

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	12	465.04	582.32				12
13	AVERAGE HEAT CONTENT (BTU/LB)	13	12,810	12,705				13
14	AVERAGE SULFUR CONTENT (%)	14	2.26	2.26				14
15	AVERAGE ASH CONTENT (%)	15	10.11	10.17				15
16	AVERAGE MOISTURE CONTENT (%)	16	4.52	5.08				16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	66.62	13.75		175.13	1.48	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	137,440	137,410		143,753	151,000	18
19	AVERAGE SULFUR CONTENT (%)	19	.30	.30		.63	.80	19
20	GAS: CONSUMPTION (1,000 MCF)	20				19,483.98	14,200	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	538			1,072	1,074	21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	22	7	4		3	6	22
23	- NO. OF WET BOTTOM	23						23
24	- NO. WITH FLY ASH REINJECTION	24						24
25	- NO. WITH MECHANICAL PRECIPITATORS	25						25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26	7	4				26
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27						27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	25.00	30.00	25.00	7.00	10.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30						30
31	TESTED, LOW - HIGH	31						31
32	ESTIMATED, LOW - HIGH	32						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/ DESIGN, LOW - HIGH	33	95.00	97.50	97.50			33
34	TESTED, LOW - HIGH	34	72.80	95.00	95.80			34
35	EST., LOW - HIGH	35	72.70	94.90	98.70			35
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36						36
37	TESTED, LOW - HIGH	37						37
38	ESTIMATED, LOW - HIGH	38						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS 2/ PARTICULATE MATTER (1,000 TONS)	39	5.03	1.28		.03		39
40	SULFUR DIOXIDE (1,000 TONS)	40	20.67	25.81		.37		40
41	NITROGEN OXIDES (1,000 TONS)	41	4.33	5.27		4.19		41
42	STACKS: - TOTAL NO.	42	3	2		6	.01	42
43	- HEIGHT (FEET), LOWEST - HIGHEST 7/	43	234.00	265.00	250.00	120.00	123.00	43
44	COMBUSTION CYCLE ADJUSTIVES (1,000 TONS) 8/	44						44
45	TOTAL ASH: COLLECTED (1,000 TONS) 9/	45	40.60	58.30			56.00	45
46	SOLO (1,000 TONS) 10/	46		4.60				46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
48	EQUIVALENT OF ACIO COLLECTED (1,000 TONS) 11/	48						48
49	ELEMENTAL AND EQUIVALENT OF ACIO SOLO (1,000 TONS)	49						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50						50
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51	718.40	712.50				51
52	COMBINATION PRECIPITATORS (\$1,000) 4/	52						52
53	DESULFURIZATION SYSTEMS (\$1,000)	53						53
54	STACKS (\$1,000)	54	188.20	291.20		264.00	3.33	54
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	137.00	178.00				55
56	REVENUES FROM SALE OF ASH (\$1,000)	56		6.20				56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						58
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 12/	59	137.00	178.00				59
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60		6.20				60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	GENESSEE	L ONTARIO	L ONTARIO	OW IRRIG. CANAL	O CANAL	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	152.52	240.32	826.04	18.00		62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	150.83	240.32	826.04	7.00		63
64	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 13/	64	1.31	2.07	7.10	11.00		64
65	PEAK LOAD MONTH: SUMMER - WINTER 14/	65	SEP	SEP	SEP	AUG	JAN	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	74.00	45.00	72.00	43.00	80.00	60.00
67	AT OUTFALL, SUMMER - WINTER	67	97.00	66.00	91.00	75.00	87.00	87.00
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68		722.00	85.00	64.00		68
69	- WINTER	69		2,147.00			2.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OW	70						70
71	CHEMICAL ADJUSTIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71	6.43	.11	.55	23.41	6.01	.01
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	36.80	.02			.01	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73	191.94				9.70	
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74						
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75						
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76	2.06	YES	11.00	34.50	33.00	YES
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 15/	77	PS	PS	ST	ST	ST	ST
78	RECEIVING WATER BODY	78						
79	POND DISCHARGE 16/	79						
80	SUSPENDED SOLIDS (PPH), BOILER BLOWDOWN - ASH SETTLING	80		8.42				
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	81		8.87				
82		82		112,700.00				

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING 17/	83	10	4	252.60	1	490.00	83
84	ONCE THROUGH COOLING (FRESH)	84						84
85	ONCE THROUGH COOLING (SALINE)	85						85
86	COOLING TOWER(S)	86				3	390.40	86
87	COMBINATIONS 18/	87				1	7.50	87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1914	1959	1949	1957	1961	1941
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 19/	89	19.60	20.00	19.60	13.20	23.20	16.00
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	288.60	255.00	844.40	517.40		116.00
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	288.60	259.00	844.40			12.60

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	349.70	1,587.00	6,983.00			92
93	COOLING PONDS (\$1,000)	93						93
94	COOLING TOWERS (\$1,000)	94				2,871.00	295.60	94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	106.00	54.20	27.00	53.90		95
96	COST OF CHEMICAL ADJUSTIVES (\$1,000)	96	1.00	4.40	1.00	4.40	.60	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	119.00	57.70	18.00	50.70		97
98	COST OF CHEMICAL ADJUSTIVES (\$1,000)	98	32.00	12.70	1.00	6.70	.25	98

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	SALT R. PROJ.	SAN DIEGO GAS & ELECTRIC CO.	SAN DIEGO GAS & ELECTRIC CO.	SAN DIEGO GAS & ELECTRIC CO.	SAN DIEGO GAS & ELECTRIC CO.	1
2	NAME OF PLANT	2	AGR IMPR PWR OIST	ENCINA	SILVER GATE	SOUTH BAY	STATION 8	2
3	UTILITY-PLANT CODE	3	433000-0600	433500-0300	433500-0500	433500-0600	433500-0700	3
4	STATE	4	ARIZONA	CALIFORNIA	CALIFORNIA	CALIFORNIA	CALIFORNIA	4
5	COUNTY	5	MARICOPA	SAN DIEGO	SAN DIEGO	SAN DIEGO	SAN DIEGO	5
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	015	029	029	029	029	6
7	PLANT CAPACITY (MW)	7	108.00	331.00	247.00	714.00	96.00	7
8	ANNUAL GENERATION (MWH) 3/	8	266,800	1,695,400	783,600	3,043,200	175,000	8
9	PLANT HEAT RATE (BTU/KWH) 4/	9	12,792	10,572	12,555	9,960	17,795	9
10	AIR QUALITY CONTROL DATA							
11	FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)	12						12
13	AVERAGE HEAT CONTENT (BTU/LB)	13						13
14	AVERAGE SULFUR CONTENT (%)	14						14
15	AVERAGE ASH CONTENT (%)	15						15
16	AVERAGE MOISTURE CONTENT (%)	16						16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	15.89	1,248.00	338.00	1,662.00	109.00	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	145,600	150,307	149,119	150,223	149,277	18
19	AVERAGE SULFUR CONTENT (%)	19	.74	.40	.81	.50	.80	19
20	GAS: CONSUMPTION (1,000 MCF)	20	3,060.43	9,433.00	7,307.00	19,976.00	2,659.00	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,080	1,065	1,057	1,056	1,056	21
22	PLANT EQUIPMENT DATA							
23	BOILERS: - TOTAL NO.	23	2	3	6	4	10	23
24	- NO. OF WET BOTTOM	24						24
25	- NO. WITH FLY ASH REINJECTION	25						25
26	- NO. WITH MECHANICAL PRECIPITATORS	26						26
27	- NO. WITH ELECTROSTATIC PRECIPITATORS	27						27
28	- NO. WITH COMBINATION PRECIPITATORS 4/	28						28
29	- NO. WITH DESULFURIZATION SYSTEMS	29						29
30	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	30	13.00	15.00	15.00	18.00	15.00	30
31	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	31						31
32	TESTED, LOW - HIGH	32						32
33	ESTIMATED, LOW - HIGH	33						33
34	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/	34						34
35	DESIGN, LOW - HIGH	35						35
36	TESTED, LOW - HIGH	36						36
37	ESTIMATED, LOW - HIGH	37						37
38	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	38						38
39	TESTED, LOW - HIGH	39						39
40	ESTIMATED, LOW - HIGH	40						40
41	PLANT OPERATING DATA AND COST OF EQUIPMENT							
42	EST. TOTAL ANNUAL PLANT EMISSIONS 7/	42						42
43	PARTICULATE MATTER (1,000 TONS)	43	.04	.21	.06	.28	.02	43
44	SULFUR DIOXIDE (1,000 TONS)	44	.63	1.67	.92	2.79	.29	44
45	NITROGEN OXIDES (1,000 TONS)	45	2	4.59	2.17	7.56	.76	45
46	STACKS: - TOTAL NO.	46	2	3	6	4	10	46
47	- HEIGHT (FEET), LOWEST - HIGHEST 8/	47	75.75	120.00	173.00	115.75	124.00	47
48	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	48						48
49	TOTAL ASH: COLLECTED (1,000 TONS) 10/	49						49
50	SOLO (1,000 TONS) 11/	50						50
51	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	51						51
52	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	52						52
53	ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	53						53
54	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	54						54
55	ELECTROSTATIC PRECIPITATORS (\$1,000)	55						55
56	COMBINATION PRECIPITATORS (\$1,000) 4/	56						56
57	DESULFURIZATION SYSTEMS (\$1,000)	57						57
58	STACKS (\$1,000)	58	168.30	42.00	17.00	54.00	76.00	58
59	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	59						59
60	REVENUES FROM SALE OF ASH (\$1,000)	60						60
61	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	61						61
62	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	62						62
63	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	63						63
64	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	64						64
65	WATER QUALITY CONTROL DATA							
66	COOLING WATER: SOURCE (CODES R, L, B, C, W, H & O EXPL. IN FOOTNOTES)	66	OW CANAL	O PACIFIC OCEAN	B SAN DIEGO	B SAN DIEGO	B SAN DIEGO	66
67	AVERAGE RATE OF WITHDRAWAL (CFS)	67	95.60	314.00	302.00	532.00	102.00	67
68	AVERAGE RATE OF DISCHARGE (CFS)	68	93.10	314.00	302.00	532.00	102.00	68
69	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	69	2.50	2.70	2.60	4.58	.88	69
70	PEAK LOAD MONTH: SUMMER - WINTER 15/	70	AUG	SEP	SEP	SEP	SEP	70
71	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	71	74.00	74.00	67.00	81.00	66.00	71
72	AT OUTFALL, SUMMER - WINTER	72	77.00	97.00	81.00	102.00	89.00	72
73	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	73	450.00					73
74	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OIS/	74						74
75	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	75	11.50	.25	.36	.22	.30	75
76	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	76		.08	.01	.14	.08	76
77	LINE (TONS), COOLING WATER - BOILER MAKEUP	77		14.50	8.50			77
78	ALUM (TONS), COOLING WATER - BOILER MAKEUP	78						78
79	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	79	1.00	50.00	69.00	53.00		79
80	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	80	YES	YES	YES	YES	YES	80
81	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 16/	81	ST	ST	PS	PS	PS	81
82	RECEIVING WATER BODY	82						82
83	POND DISCHARGE 17/	83						83
84	BOILER BLOWDOWN - ASH SETTLING	84						84
85	SUSPENDED SOLIDS (PPH), BOILER BLOWDOWN - ASH SETTLING	85						85
86	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	86						86
87	COOLING FACILITY DATA							
88	NO. OF UNITS AND CAPACITY (MW) USING 18/	88						88
89	ONCE THROUGH COOLING (FRESH)	89						89
90	ONCE THROUGH COOLING (SALINE)	90						90
91	COOLING PONDS(S)	91	3	330.75	4	247.00	4	91
92	COOLING TOWER(S)	92						92
93	COMBINATIONS 19/	93	2	108.00				93
94	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	94	1952	1954	1954	1958	1943	94
95	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 20/	95	21.00	23.60	21.90	16.00	14.00	95
96	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	96	149.80	320.70	332.70	332.70	866.30	96
97	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	97	149.80	330.60	332.70	332.70	922.80	97
98	CAPITAL COSTS OF COOLING FACILITIES							
99	ONCE THROUGH COOLING SYSTEMS (\$1,000)	99	356.92	5,271.00	1,253.00	2,965.00	1,126.00	99
100	COOLING PONDS (\$1,000)	100						100
101	COOLING TOWERS (\$1,000)	101	471.33					101
102	ANNUAL COOLING WATER EXPENSES							
103	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	103	8.89	63.20	68.60	24.30	31.10	103
104	COST OF CHEMICAL ADDITIVES (\$1,000)	104	4.04	6.30	9.60	7.20		104
105	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
106	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	106	31.52	39.80	31.20	75.00	45.00	106
107	COST OF CHEMICAL ADDITIVES (\$1,000)	107	3.96	2.00	1.60	1.90	3.60	107

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

NAME OF UTILITY	1 SAVANNAH ELECTRIC & POWER CO.	2 SAVANNAH ELECTRIC & POWER CO.	3 SEATTLE DEPT. OF LIGHTING	4 SIERRA PACIFIC POWER CO.	5 SIERRA PACIFIC POWER CO.
NAME OF PLANT	PORT WENTWORTH	RIVERSIDE	LAKE UNION	FORT CHURCHILL	TRACY
UTILITY-PLANT CODE	435500-0100	435500-0200	437000-0600	443500-0400	443500-1200
STATE	GEORGIA	GEORGIA	WASHINGTON	NEVADA	NEVADA
COUNTY	CHATHAM	CHATHAM	KING	LYON	STOREY
AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	058 03	058 03	229 17	148 16	148 16
PLANT CAPACITY (MW)	332.00	87.50	30.00	220.00	133.00
ANNUAL GENERATION (MWH) 3/	1,399,000	340,600	1,200	922,400	437,400
PLANT HEAT RATE (BTU/KWH) 4/	10,800	13,287		10,178	11,734

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	12 33.70				
AVERAGE HEAT CONTENT (BTU/LB)	13 11,386				
AVERAGE SULFUR CONTENT (%)	14 1.30				
AVERAGE ASH CONTENT (%)	15 15.78				
AVERAGE MOISTURE CONTENT (%)	16 7.26				
OIL: CONSUMPTION (1,000 BARRELS)	17 1,514.60	141.10	.03	14.80	90.07
AVERAGE HEAT CONTENT (BTU/GAL)	18 148,307	148,309	143,087	150,477	149,450
AVERAGE SULFUR CONTENT (%)	19 2.50	2.50	.10	.80	.80
GAS: CONSUMPTION (1,000 MCF)	20 4,856.80	3,490.00		9,088.40	4,336.00
AVERAGE HEAT CONTENT (BTU/CU.FT.)	21 1,033	1,033		1,056	1,057

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	22 4	6	14	2	2
- NO. OF WET BOTTOM	23 3				
- NO. WITH FLY ASH REINJECTION	24 3				
- NO. WITH MECHANICAL PRECIPITATORS	25 3				
- NO. WITH ELECTROSTATIC PRECIPITATORS	26 3				
- NO. WITH COMBINATION PRECIPITATORS 5/	27 3				
- NO. WITH DESULFURIZATION SYSTEMS	28 3				
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 6/	29 10.00 20.00	18.00 35.00	14.00	7.00	10.00
MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30 86.10 92.50				
TESTED, LOW - HIGH	31 86.10 92.50				
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	32 86.10 92.50				
TESTED, LOW - HIGH	33 86.10 92.50				
EST., LOW - HIGH	34 86.10 92.50				
DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	35 86.10 92.50				
ESTIMATED, LOW - HIGH	36 86.10 92.50				

PLANT OPERATING DATA AND COST OF EQUIPMENT

ESY. TOTAL ANNUAL PLANT EMISSIONS: 7/	39 .27	.02			.02
PARTICULATE MATTER (1,000 TONS)	40 .86	1.18		.04	.24
SULFUR DIOXIDE (1,000 TONS)	41 2.50	.99		1.80	1.04
NITROGEN OXIDES (1,000 TONS)	42 4	5	7	2	2
STACKS: - TOTAL NO.	43 198.00	175.00	254.00	156.00	200.00
- HEIGHT (FEET), LOWEST - HIGHEST 8/	44 .05				
COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	45 3.94				
TOTAL ASH: COLLECTED (1,000 TONS) 10/	46 3.94				
SOLD (1,000 TONS) 11/	47 161.40				
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	48 161.40				
EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	49 161.40				
ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	50 161.40				
INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	51 161.40				
ELECTROSTATIC PRECIPITATORS (\$1,000)	52 161.40				
COMBINATION PRECIPITATORS (\$1,000) 4/	53 161.40				
DESULFURIZATION SYSTEMS (\$1,000)	54 161.40				
STACKS (\$1,000)	55 161.40				
ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	56 6.40			38.00	103.00
REVENUES FROM SALE OF ASH (\$1,000)	57 6.40				
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	58 27.90				
REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	59 27.90				
TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	60 27.90				
TOTAL BYPRODUCT SALES REVENUES (\$1,000)	61 27.90				

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, S, C, W, M & O EXPL. IN FOOTNOTES)	61 R SAVANNAH	R SAVANNAH	L UNION	W	R TRUCKEE
AVERAGE RATE OF WITHDRAWAL (CF5)	62 400.90	113.70			46.60
AVERAGE RATE OF DISCHARGE (CF5)	63 400.90	113.70			46.60
AVERAGE RATE OF CONSUMPTION (CF5), CALCULATED - REPORTED 14/	64 3.45	.98			
PEAK LOAD MONTH: SEP	65 82.00	54.00			
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66 96.00	84.00			
AT OUTFALL, SUMMER - WINTER	67 12,500.00	12,500.00			
AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CF5): SUMMER	68 12,500.00	12,500.00			
- WINTER	69 12,500.00	12,500.00			
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, DIS/	70 12,500.00	12,500.00			
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71 .29	.16			
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72 .03	.65			
LIME (TONS), COOLING WATER - BOILER MAKEUP	73 .03	.65			
ALUM (TONS), COOLING WATER - BOILER MAKEUP	74 .03	.65			
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75 .03	.65			
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76 .03	.65			
SEWAGE DISPOSAL: METHOD PS, ST, SW, OTM/	77 ST	PS	PS	ST	ST
RECEIVING WATER BODY	78 SAVANNAH	SAVANNAH	UNION	W	TRUCKEE
POND DISCHARGE: PH	79 9.00	6.70			
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80 9.00	6.70			
VOLUME (1,000 CU.FT./YR), BOILER BLOWDOWN - ASH SETTLING	81 9.00	6.70			

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING: 15/	83 3	5	3	1	1
ONCE THROUGH COOLING (FRESH)	84 207.00	118.50	30.00	53.00	53.00
ONCE THROUGH COOLING (SALINE)	85 207.00	118.50	30.00	53.00	53.00
COOLING PONDS (S)	86 207.00	118.50	30.00	53.00	53.00
COOLING TOWERS (S)	87 207.00	118.50	30.00	53.00	53.00
COMBINATION (S) 16/	88 207.00	118.50	30.00	53.00	53.00
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	89 1957 1965	1926 1955	1914 1921	1968 1971	1965 1965
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 17/	90 15.00 18.00	10.00 15.00	27.00 27.00	21.00 21.00	28.00 38.00
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CF5)	91 675.08	331.00	790.20	206.00	126.60
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CF5)	92 274.93	77.00	790.20	206.00	126.60

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS (\$1,000)	93 1,048.70	506.60			
COOLING PONDS (\$1,000)	94 1,048.70	506.60			
COOLING TOWERS (\$1,000)	95 1,048.70	506.60			

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES (\$1,000)	96 281.10	3.00			
COST OF CHEMICAL ADDITIVES (\$1,000)	97 8.30	4.20		2.20	.20

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES (\$1,000)	98 .70	5.80			
COST OF CHEMICAL ADDITIVES (\$1,000)	99 6.00	1.00		8.10	3.10

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	14	SOUTH CAROLINA ELECTRIC & GAS CO.	SOUTH CAROLINA ELECTRIC & GAS CO.	SOUTH CAROLINA ELECTRIC & GAS CO.	SOUTH CAROLINA ELECTRIC & GAS CO.	SOUTH CAROLINA ELECTRIC & GAS CO.	
2	NAME OF PLANT	15	CANADYS	HAGDOO	MCMEELIN	URQUHART	WATEREE	
3	UTILITY-PLANT CODE	16	447500-0400	447500-0700	447500-0900	447500-1600	447500-1700	
4	STATE	17	SOUTH CAROLINA	SOUTH CAROLINA	SOUTH CAROLINA	SOUTH CAROLINA	SOUTH CAROLINA	
5	COUNTY	18	COLLETON	CHARLESTON	LEXINGTON	AIKEN	RICHLAND	
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	19	058 03	199 03	200 03	053 03	200 03	
7	PLANT CAPACITY (MW)	20	489.60	97.75	275.00	250.00	771.80	
8	ANNUAL GENERATION (MWH) 3/	21	2,336,500	440,200	1,440,500	1,686,200	2,092,900	
9	PLANT HEAT RATE (BTU/MWH) 3/	22	10,091	12,825	9,399	10,292	9,301	
AIR QUALITY CONTROL DATA								
FUEL CONSUMPTION DATA (ANNUAL)								
12	COAL: CONSUMPTION (1,000 TONS)	13	684.46		326.00	317.66	770.99	
13	AVERAGE HEAT CONTENT (BTU/LB)	14	12,470		12,476	12,573	12,505	
14	AVERAGE SULFUR CONTENT (%)	15	1.19		1.56	1.77	1.50	
15	AVERAGE ASH CONTENT (%)	16	11.50		11.07	11.22	11.60	
16	AVERAGE MOISTURE CONTENT (%)	17	4.79		5.04	5.04	4.61	
17	OIL: CONSUMPTION (1,000 BARRELS)	18	13.08	160.81	3.92	1.85	31.84	
18	AVERAGE HEAT CONTENT (BTU/GAL)	19	137,200	150,518	138,312	138,180	138,000	
19	AVERAGE SULFUR CONTENT (%)	20	.10	2.71	.06	.06	.06	
20	GAS: CONSUMPTION (1,000 MCF)	21	6,231.36	4,484.86	5,214.59	9,064.66		
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	22	1,032	1,032	1,032	1,032		
PLANT EQUIPMENT DATA								
22	BOILERS: - TOTAL NO.	23	3	3	2	3	2	
23	- NO. OF WET BOTTOM	24			2			
24	- NO. WITH FLY ASH REINJECTION	25						
25	- NO. WITH MECHANICAL PRECIPITATORS	26	3			1		
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	27	1		2	3	2	
27	- NO. WITH COMBINATION PRECIPITATORS 4/	28						
28	- NO. WITH DESULFURIZATION SYSTEMS	29						
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	30	83.50	22.50	10.00	15.00	22.50	
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	31	67.60	75.00			20.00	
31	TESTED, LOW - HIGH	32	67.60	75.00				
32	ESTIMATED, LOW - HIGH	33		99.60				
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/	34			99.90	99.60	99.00	
34	DESIGN, LOW - HIGH	35				99.12		
35	TESTED, LOW - HIGH	36			99.90	99.00	99.00	
36	EST., LOW - HIGH	37						
37	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	38						
38	TESTED, LOW - HIGH							
39	EST. TOTAL ANNUAL PLANT EMISSIONS 7/	40						
40	PARTICULATE MATTER (1,000 TONS)	41	6.64	.03	.02	.23	.58	
41	SULFUR DIOXIDE (1,000 TONS)	42	15.97	1.46	9.97	10.90	22.67	
42	NITROGEN OXIDES (1,000 TONS)	43	11.51	1.23	5.92	6.49	11.63	
43	STACKS: - TOTAL NO.	44	3	2	3	2	2	
44	- HEIGHT (FEET), LOWEST - HIGHEST 8/	45	200.00	125.00	250.00	200.00	300.00	
45	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	46						
46	TOTAL ASH: COLLECTED (1,000 TONS) 10/	47	71.90	2.62	35.66	35.53	91.60	
47	SOLD (1,000 TONS) 11/	48	.10			1.32	.40	
48	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	49						
49	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	50						
50	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	51	292.19			98.05		
51	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	52	719.41		962.60	1,196.75	1,357.22	
52	ELECTROSTATIC PRECIPITATORS (\$1,000)	53						
53	COMBINATION PRECIPITATORS (\$1,000) 4/	54	263.39	53.74	137.56	214.18	740.16	
54	DESULFURIZATION SYSTEMS (\$1,000)	55				8.28	19.36	
55	STACKS (\$1,000)	56	6.10	.64	12.00	1.65	.44	
56	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57	.25					
57	REVENUES FROM SALE OF ASH (\$1,000)	58						
58	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	59						
59	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	60	6.10	.64	12.00	8.28	19.36	
60	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/		.25			1.65	.44	
61	TOTAL BYPRODUCT SALES REVENUES (\$1,000)							
WATER QUALITY CONTROL DATA								
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	62	R EDISTO	R ASHLEY	L MURRAY	R SAVANNAH	R WATEREE	
62	AVERAGE RATE OF WITHDRAWAL (CFD)	63	475.15	210.67	194.40	294.40	744.00	
63	AVERAGE RATE OF DISCHARGE (CFD)	64	475.15	210.67	193.50	292.90	742.50	
64	AVERAGE RATE OF CONSUMPTION (CFD), CALCULATED - REPORTED 14/	65		1.81	1.67	2.53	1.50	
65	PEAK LOAD MONTH:	66	AUG	JAN	AUG	JAN	AUG	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	67	90.00	50.00	83.90	48.60	57.00	
67	AT OUTFALL, SUMMER - WINTER	68	97.00	57.00	100.40	62.20	75.00	
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFD): SUMMER - WINTER	69	3,630.00					
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O 15/	70	2,640.00					
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71		.15				
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	51.74	9.77	28.69		636.98	
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	73						
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74	28.70		16.75	68.40	51.45	
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	20.90				1.65	
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76	YES	YES	YES	YES	YES	
76	SEWAGE DISPOSAL: METHOD P, ST, SW, OT 16/	77	ST	OT	ST	SW	SW	
77	RECEIVING WATER BODY	78		R ASHLEY		R SAVANNAH	R WATEREE	
78	POND DISCHARGE 17/	79	5.50	5.50		7.20	6.00	
79	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80	180.00	180.00		125.00	120.00	
80	VOLUME (1,000 CU.FT./YR), BOILER BLOWDOWN - ASH SETTLING	81	13,000.00					
81		82	31,000.00		6,620.00		82,260.39	
COOLING FACILITY DATA								
83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	84	3	97.76	2	293.60	3	250.00
84	ONCE THROUGH COOLING (SALINE)	85						
85	COOLING PONDS(S)	86						
86	COOLING TOWER(S)	87	3	489.60				
87	COMBINATIONS 21/	88	1962	1967	1947	1951	1958	1953
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	89		19.00		19.00	20.00	24.00
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	90		499.31		201.32	252.00	290.70
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFD)	91		499.31		204.99	252.00	290.70
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFD)							
CAPITAL COSTS OF COOLING FACILITIES								
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	93	886.00	37.00	140.14	182.36	750.47	
93	COOLING PONDS (\$1,000)	94	1,631.25					
94	COOLING TOWERS (\$1,000)						2,972.70	
ANNUAL COOLING WATER EXPENSES								
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	96	3.86	10.40		2.11	15.00	
96	COST OF CHEMICAL ADDITIVES (\$1,000)					4.02	1.86	
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES								
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	98	26.06	3.89	8.50	14.83	12.00	
98	COST OF CHEMICAL ADDITIVES (\$1,000)			1.05		9.82	49.49	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	SOUTH CAROLINA PUBLIC SERVICE	SOUTH CAROLINA PUBLIC SERVICE	SOUTH MISSISSIPPI ELEC PWR ASSOC	SOUTHERN CALIFORNIA EDISON CO.	SOUTHERN CALIFORNIA EDISON CO.	1	
2	NAME OF PLANT	2	AUTH.	AUTH.	MOSELLE	ALAMITOS	COOL WATER	2	
3	UTILITY-PLANT CODE	3	GRAINGER	JEEGERIES	448300-0100	450500-0100	450500-1400	3	
4	STATE	4	448000-0100	448000-0200	MISSISSIPPI	CALIFORNIA	CALIFORNIA	4	
5	COUNTY	5	SOUTH CAROLINA	SOUTH CAROLINA	JONES	LOS ANGELES	SAN BERNARDINO	5	
6	AIR QUALITY CONTROL REGION NO. 1/2 - WATER RESOURCE REGION NO. 2/2	6	HORRY	BERKELEY				6	
7	PLANT CAPACITY (MW)	7	204	03	199	03	005	03	7
8	ANNUAL GENERATION (MMH) 2/2	8	163.20	445.60	177.00	1,982.40	146.88	9	
9	PLANT HEAT RATE (BTU/KWH) 2/2	9	890,500	2,137,000	636,800	9,355,900	1,098,600	10	
10		10	9,380	10,529	11,939	9,879	10,081	11	
AIR QUALITY CONTROL DATA									
FUEL CONSUMPTION DATA (ANNUAL)									
12	COAL: CONSUMPTION (1,000 TONS)	12	404.15	644.02				12	
13	AVERAGE HEAT CONTENT (BTU/LB)	13	11,873	11,766				13	
14	AVERAGE SULFUR CONTENT (%)	14	1.03	1.14				14	
15	AVERAGE ASH CONTENT (%)	15	11.89	12.99				15	
16	AVERAGE MOISTURE CONTENT (%)	16	5.25	6.57				16	
17	DIL: CONSUMPTION (1,000 BARRELS)	17		543.20	65.27	6,261.70	5.40	17	
18	AVERAGE HEAT CONTENT (BTU/GAL)	18		148,122	138,223	144,427	150,000	18	
19	AVERAGE SULFUR CONTENT (%)	19		1.90	.90	.41	.50	19	
20	GAS: CONSUMPTION (1,000 MCF)	20			7,224.00	50,674.90	10,131.70	20	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21			1,000	1,065	1,090	21	
PLANT EQUIPMENT DATA									
22	BOILERS: - TOTAL NO.	22	2	4	3	6	2	22	
23	- NO. OF WET BOTTOM	23	2					23	
24	- NO. WITH FLY ASH REINJECTION	24						24	
25	- NO. WITH MECHANICAL PRECIPITATORS	25		2		1		25	
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26	2	2				26	
27	- NO. WITH COMBINATION PRECIPITATORS 1/2	27						27	
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28	
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 2/2	29	23.00	13.00	8.00	10.00	13.00	5.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30		85.00			99.50		30
31	TESTED, LOW - HIGH	31					99.90		31
32	ESTIMATED, LOW - HIGH	32		80.00			99.00		32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 2/2, DESIGN, LOW - HIGH	33	95.00	95.00					33
34	TESTED, LOW - HIGH	34	97.90	94.60					34
35	EST., LOW - HIGH	35	95.00						35
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36							36
37	TESTED, LOW - HIGH	37							37
38	ESTIMATED, LOW - HIGH	38							38
PLANT OPERATING DATA AND COST OF EQUIPMENT									
39	EST. TOTAL ANNUAL PLANT EMISSIONS: 2/2 PARTICULATE MATTER (1,000 TONS)	39	1.56	3.90	.01	.86		39	
40	SULFUR DIOXIDE (1,000 TONS)	40	8.16	17.85	.20	8.61	.01	40	
41	NITROGEN OXIDES (1,000 TONS)	41	6.06	6.99	1.55	23.69	1.99	41	
42	STACKS: - TOTAL NO.	42	2	6	3	6	2	42	
43	- HEIGHT (FEET), LOWEST - HIGHEST 1/2	43	300.00	175.00	300.00	100.00	200.00	134.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 1/2	44							44
45	TOTAL ASH: COLLECTED (1,000 TONS) 1/2	45	48.00	79.50					45
46	SOLD (1,000 TONS) 1/2	46							46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47							47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 1/2	48							48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49							49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50		52.00		1,600.00			50
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51	423.00	354.00					51
52	COMBINATION PRECIPITATORS (\$1,000) 1/2	52							52
53	DESULFURIZATION SYSTEMS (\$1,000)	53							53
54	STACKS (\$1,000)	54	338.00	632.00		481.00	11.60		54
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	20.90	6.00					55
56	REVENUES FROM SALE OF ASH (\$1,000)	56							56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57							57
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58							58
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 1/2	59	20.90	6.00		19.53	1.39		59
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60							60
WATER QUALITY CONTROL DATA									
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & D EXPL. IN FOOTNOTES)	61	R WACCAMAH	R COOPER	W	O PACIFIC OCEAN	W	61	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	119.00	266.00	1.55	1,970.00	3.82	62	
63	AVERAGE RATE OF DISCHARGE (CFS)	63	119.00	266.00	.71	1,970.00	1.26	63	
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 1/2	64		2.29	.84	16.94	2.56	64	
65	PEAK LOAD MONTH: SUMMER - WINTER	65	JUN	OEC	JUN	DEC	SEP	DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	84.00	78.00	85.00	56.00			66
67	AT OUTFALL, SUMMER - WINTER	67	92.00	84.00	100.00	74.00			67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	68		561.00	13,971.00				68
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OIR	69		700.00	25,264.00				69
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70							70
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71		.10	.25	.28	.15	.03	71
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	72		5.00	120.00	1.49		37.50	72
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	73			7.50				73
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74	10.00						74
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75			1.48		32.81	8.10	75
76	SEWAGE DISPOSAL: METHOD PS, ST, SW, OTIR	76	PS	YES	YES	YES	YES	YES	76
77	RECEIVING WATER BODY	77		OT R COOPER	OT R LEAF				77
78	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	78							78
79	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79		6.50					79
80	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN	80		80.00					80
81		81							81
82		82		47,000.00			1,220.00		82
COOLING FACILITY DATA									
83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	83		4	445.60				83
84	ONCE THROUGH COOLING (SALINE)	84							84
85	COOLING POND(S)	85				6	1,982.40		85
86	COOLING TOWER(S)	86							86
87	COMBINATIONS 1/2	87	2	163.20		3	177.00	2	87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88		1966	1953	1970	1969	1956	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 1/2	89		19.00	13.00	18.00	22.00	14.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CES)	90		180.00		550.00	280.80	1,910.60	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91		194.00		550.00		1,899.40	91
CAPITAL COSTS OF COOLING FACILITIES									
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92		1,132.12	1,305.00		4,693.00		92
93	COOLING PONDS (\$1,000)	93		300.00					93
94	COOLING TOWERS (\$1,000)	94				300.00		641.80	94
ANNUAL COOLING WATER EXPENSES									
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95		36.12	5.72	71.50	78.00	12.00	95
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96		2.25		28.95	31.50	50.00	96
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES									
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97		13.54	27.70	33.00	79.90		97
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98		6.72	14.00	.68	62.90	3.00	98

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	2	SOUTHERN CALIFORNIA Edison CO.	3	SOUTHERN CALIFORNIA Edison CO.	4	SOUTHERN CALIFORNIA Edison CO.	5	SOUTHERN CALIFORNIA Edison CO.	6	SOUTHERN CALIFORNIA Edison CO.
2	NAME OF PLANT	3	EL SEGUNDO	4	ETI MANOA	5	HIGHGROVE	6	HUNTINGTON BEACH	7	LONG BEACH
3	UTILITY-PLANT CODE	4	450500-1500	5	450500-1600	6	450500-2000	7	450500-2100	8	450500-2700
4	STATE	5	CALIFORNIA	6	CALIFORNIA	7	CALIFORNIA	8	CALIFORNIA	9	CALIFORNIA
5	COUNTY	6	LOS ANGELES	7	SAN BERNARDINO	8	SAN BERNARDINO	9	ORANGE	10	LOS ANGELES
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	7	024	18	024	18	024	18	024	18	
7	PLANT CAPACITY (MW)	8	1,020.00	9	911.00	10	169.00	11	870.40	12	180.00
8	ANNUAL GENERATION (MWH) 3/	9	4,483,500	10	4,615,400	11	119,500	12	4,489,300	13	35,100
9	PLANT HEAT RATE (BTU/KWH) 4/	10	9,974	11	10,126	12	12,569	13	9,803	14	18,376
AIR QUALITY CONTROL DATA											
FUEL CONSUMPTION DATA (ANNUAL)											
12	COAL: CONSUMPTION (1,000 TONS)	13		14		15		16		17	
13	AVERAGE HEAT CONTENT (BTU/LB)	14		15		16		17		18	
14	AVERAGE SULFUR CONTENT (%)	15		16		17		18		19	
15	AVERAGE ASH CONTENT (%)	16		17		18		19		20	
16	AVERAGE MOISTURE CONTENT (%)	17	3,369.10	18	3,416.90	19	143.80	20	2,715.00	21	25.57
17	OIL: CONSUMPTION (1,000 BARRELS)	18	144,634	19	144,930	20	151,247	21	146,471	22	151,095
18	AVERAGE HEAT CONTENT (BTU/GAL)	19		20		21	1.77	22	1.37	23	1.40
19	AVERAGE SULFUR CONTENT (%)	20	23,034.80	21	24,400.30	22	556.70	23	25,480.00	24	458.76
20	GAS: CONSUMPTION (1,000 MCF)	21	1,053	22	1,059	23	1,056	24	1,065	25	1,055
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	22		23		24		25		26	
PLANT EQUIPMENT DATA											
22	BOILERS: - TOTAL NO.	23	4	24	4	25	4	26	4	27	7
23	- NO. OF WET BOTTOM	24		25		26		27		28	
24	- NO. WITH FLY ASH REINJECTION	25		26		27		28		29	
25	- NO. WITH MECHANICAL PRECIPITATORS	26		27		28		29		30	
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	27		28		29		30		31	
27	- NO. WITH COMBINATION PRECIPITATORS 5/	28		29		30		31		32	
28	- NO. WITH DESULFURIZATION SYSTEMS	29		30		31		32		33	
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	30	10.00	31	10.00	32	16.00	33	17.00	34	15.00
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	31		32		33		34		35	
31	TESTED, LOW - HIGH	32		33		34		35		36	
32	ESTIMATED, LOW - HIGH	33		34		35		36		37	
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 5/ DESIGN, LOW - HIGH	34		35		36		37		38	
34	TESTED, LOW - HIGH	35		36		37		38		39	
35	EST., LOW - HIGH	36		37		38		39		40	
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	37		38		39		40		41	
37	TESTED, LOW - HIGH	38		39		40		41		42	
38	ESTIMATED, LOW - HIGH	39		40		41		42		43	
PLANT OPERATING DATA AND COST OF EQUIPMENT											
39	EST. TOTAL ANNUAL PLANT EMISSIONS 5/ PARTICULATE MATTER (1,000 TONS)	40	4.57	41	4.57	42	4.02	43	4.46	44	3.90
40	SULFUR DIOXIDE (1,000 TONS)	41	11.92	42	12.29	43	4.43	44	10.96	45	4.15
41	NITROGEN OXIDES (1,000 TONS)	42	4	43	4	44	4	45	4	46	4
42	STACKS: - TOTAL NO.	43	200.00	44	176.00	45	199.00	46	70.00	47	99.00
43	- HEIGHT (FEET), LOWEST - HIGHEST 5/	44		45		46		47		48	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 6/	45		46		47		48		49	
45	TOTAL ASH: COLLECTED (1,000 TONS) 7/	46		47		48		49		50	
46	SOLO (1,000 TONS) 8/	47		48		49		50		51	
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	48		49		50		51		52	
48	EQUIVALENT OF ACIO COLLECTED (1,000 TONS) 9/	49		50		51		52		53	
49	ELEMENTAL AND EQUIVALENT OF ACIO SOLO (1,000 TONS)	50		51		52		53		54	
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	51		52		53		54		55	
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	52		53		54		55		56	
52	COMBINATION PRECIPITATORS (\$1,000) 10/	53		54		55		56		57	
53	DESULFURIZATION SYSTEMS (\$1,000)	54		55		56		57		58	
54	STACKS (\$1,000)	55	223.80	56	214.00	57	61.30	58	169.40	59	98.60
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	56		57		58		59		60	
56	REVENUES FROM SALE OF ASH (\$1,000)	57		58		59		60		61	
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	58		59		60		61		62	
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	59	10.77	60	10.04	61	2.58	62	8.38	63	
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 11/	60		61		62		63		64	
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	61		62		63		64		65	
WATER QUALITY CONTROL DATA											
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	62	8	9	11	12	13	14	15	16	17
62	AVERAGE RATE OF WITHDRAWAL (CFS)	63	888.00	64	11.10	65	1.80	66	633.00	67	34.50
63	AVERAGE RATE OF DISCHARGE (CFS)	64	7.64	65	9.30	66	0.91	67	5.44	68	34.50
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 12/	65		66		67		68		69	
65	PEAK LOAD MONTH: SUMMER - WINTER 13/	66	SEP	67	SEP	68	SEP	69	SEP	70	SEP
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	67	DEC	68	DEC	69	DEC	70	DEC	71	DEC
67	AT OUTFALL, SUMMER - WINTER	68		69		70		71		72	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	69	UNLIMITED	70	UNLIMITED	71	UNLIMITED	72	UNLIMITED	73	UNLIMITED
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, O/W	70	UNLIMITED	71	UNLIMITED	72	UNLIMITED	73	UNLIMITED	74	UNLIMITED
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71		72		73		74		75	
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72		73		74		75		76	
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	73		74		75		76		77	
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74		75		76		77		78	
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75		76		77		78		79	
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76	YES	77	YES	78	YES	79	YES	80	YES
76	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 14/	77	PS	78	ST	79	ST	80	PS	81	ST
77	RECEIVING WATER BODY	78		79		80		81		82	
78	POND DISCHARGE 15/	79	9.50	80	0	81	0	82	0	83	0
79	SUSPENDED SOLIDS (PPH), BOILER BLOWDOWN - ASH SETTLING	80		81		82		83		84	
80	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	81	460.00	82		83		84		85	
81	- ASH SETTLING	82		83		84		85		86	
COOLING FACILITY DATA											
83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	84	4	85	996.50	86		87	4	88	870.40
84	ONCE THROUGH COOLING (SALINE)	85		86		87		88		89	2
85	COOLING PONDS(S)	86		87		88		89		90	180.00
86	COOLING TOWER(S)	87		88		89		90		91	
87	COMBINATIONS 21/	88		89		90		91		92	
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	89	1954	90	1963	91	1953	92	1963	93	1952
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	90	22.00	91	23.65	92	19.00	93	21.00	94	15.50
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	91	888.00	92	888.00	93	870.00	94	266.00	95	755.00
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	92		93		94		95		96	
CAPITAL COSTS OF COOLING FACILITIES											
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	93	563.40	94		95		96	703.00	97	
93	COOLING PONDS (\$1,000)	94		95	1,592.00	96		97		98	
94	COOLING TOWERS (\$1,000)	95		96		97	866.00	98		99	
ANNUAL COOLING WATER EXPENSES											
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	96	36.01	97	206.00	98	7.00	99	92.00	100	13.50
96	COST OF CHEMICAL ADDITIVES (\$1,000)	97	13.16	98	72.00	99	8.10	100	23.25	101	
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES											
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	98	67.87	99	12.00	100	16.00	101	155.40	102	55.80
98	COST OF CHEMICAL ADDITIVES (\$1,000)	99	9.05	100	8.00	101	4.20	102	16.60	103	2.50

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

NAME OF UTILITY	1	SOUTHERN	SOUTHERN	SOUTHERN	SOUTHERN	SOUTHERN	1
NAME OF PLANT	2	CALIFORNIA EIDSON	CALIFORNIA EIDSON	CALIFORNIA EIDSON	CALIFORNIA EIDSON	CALIFORNIA EIDSON	2
UTILITY-PLANT CODE	3	CO.	CO.	CO.	CO.	CO.	3
STATE	4	MANOALAY	RECONNO	SAN BERNARDINO	SAN ONOFRE	MOHAVE	4
COUNTY	5	450500-3100	450500-3900	450500-4100	450500-4300	450500-4500	5
AIR QUALITY CONTROL REGION NO. ^{1/} - WATER RESOURCE REGION NO. ^{2/}	6	CALIFORNIA	CALIFORNIA	CALIFORNIA	CALIFORNIA	NEVADA	6
PLANT CAPACITY (MW)	7	VENTURA	LOS ANGELES	SAN BERNARDINO	SAN DIEGO	CLARK	7
ANNUAL GENERATION (MWH) ^{3/}	8	024 18	024 18	024 18	029 18	013 18	8
PLANT HEAT RATE (BTU/KWH) ^{4/}	9	435.20	1,579.45	130.56	450.00	1,510.00	9
	10	2,811,600	6,128,000	557,200	2,642,500	1,204,700	10
	11	9,560	10,054	10,484	10,304	12,395	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

COAL: CONSUMPTION (1,000 TONS)	12					949.00	12
AVERAGE HEAT CONTENT (BTU/LB)	13					12,050	13
AVERAGE SULFUR CONTENT (%)	14					.38	14
AVERAGE ASH CONTENT (%)	15					10.82	15
AVERAGE MOISTURE CONTENT (%)	16						16
OIL: CONSUMPTION (1,000 BARRELS)	17	241.00	3,319.20	158.80			17
AVERAGE HEAT CONTENT (BTU/GAL)	18	146,482	144,600	147,157			18
AVERAGE SULFUR CONTENT (%)	19	.34	.32	.92			19
GAS: CONSUMPTION (1,000 MCF)	20	23,934.00	39,221.80	4,607.40		7,679.30	20
AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,047	1,056	1,055		1,088	21

PLANT EQUIPMENT DATA

BOILERS: - TOTAL NO.	22	2	11	2		2	22
- NO. OF WET BOTTOM	23						23
- NO. WITH FLY ASH REINJECTION	24						24
- NO. WITH MECHANICAL PRECIPITATORS	25						25
- NO. WITH ELECTROSTATIC PRECIPITATORS	26					2	26
- NO. WITH COMBINATION PRECIPITATORS ^{4/}	27						27
- NO. WITH DESULFURIZATION SYSTEMS	28						28
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER ^{5/}	29	4.00	10.00	12.50	4.75	18.00	29
MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30						30
TESTED, LOW - HIGH	31						31
ESTIMATED, LOW - HIGH	32						32
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	33					98.60	33
TESTED, LOW - HIGH	34					98.40	34
EST., LOW - HIGH	35					97.00	35
DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36						36
TESTED, LOW - HIGH	37						37
ESTIMATED, LOW - HIGH	38						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

EST. TOTAL ANNUAL PLANT EMISSIONS: ^{2/} PARTICULATE MATTER (1,000 TONS)	39	.04	.56	.03		1.92	39
SULFUR DIOXIDE (1,000 TONS)	40	.27	3.56	.49		7.07	40
NITROGEN OXIDES (1,000 TONS)	41	5.20	14.97	1.25		9.40	41
STACKS: - TOTAL NO.	42	1	8	2		1	42
- HEIGHT (FEET), LOWEST - HIGHEST ^{1/}	43	200.00	200.00	130.00		500.00	43
COMBUSTION CYCLE ADDITIVES (1,000 TONS) ^{1/}	44						44
TOTAL ASH: COLLECTED (1,000 TONS) ^{1/}	45					110.17	45
SOLO (1,000 TONS) ^{1/}	46					.30	46
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
EQUIVALENT OF ACID COLLECTED (1,000 TONS) ^{1/2/}	48						48
ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	49						49
INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50						50
ELECTROSTATIC PRECIPITATORS (\$1,000)	51						51
COMBINATION PRECIPITATORS (\$1,000) ^{4/}	52						52
DESULFURIZATION SYSTEMS (\$1,000)	53						53
STACKS (\$1,000)	54	92.00	563.30	10.68		218.63	54
ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55					1.21	55
REVENUES FROM SALE OF ASH (\$1,000)	56						56
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						57
REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						58
TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) ^{1/3/}	59	4.69	13.08	20.41		218.63	59
TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60					1.21	60

WATER QUALITY CONTROL DATA

COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	0	SANTA BARB CHNL	0	PACIFIC OCEAN	W	0	PACIFIC OCEAN	R	COLORADO	61
AVERAGE RATE OF WITHDRAWAL (CFS)	62		384.00		1,706.00		1.93	793.27		18.70	62
AVERAGE RATE OF DISCHARGE (CFS)	63		384.00		1,706.00		.84	793.00		18.70	63
AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED ^{1/}	64		3-30		14.67		1.09	6.82		18.70	64
PEAK LOAD MONTH: SUMMER - WINTER ^{2/}	65		SEP	DEC	SEP	DEC				SEP	65
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT OVERFLOW, SUMMER - WINTER	66									DEC	66
AT OUTFALL, SUMMER - WINTER	67										67
AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	68		UNLIMITED		UNLIMITED		.91	UNLIMITED			68
FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OIR	69		UNLIMITED		UNLIMITED		.78	UNLIMITED			69
CHEMICAL ADDITIVES: PHOSPHATE (TONS): COOLING WATER - BOILER MAKEUP	70										70
CAUSTIC SODA (TONS): COOLING WATER - BOILER MAKEUP	71		.15		.18	20.40	.04	.50			71
LIME (TONS): COOLING WATER - BOILER MAKEUP	72				.70						72
ALUM (TONS): COOLING WATER - BOILER MAKEUP	73										73
CHLORINE (TONS): COOLING WATER - BOILER MAKEUP	74										74
OTHER (YES/NO): COOLING WATER - BOILER MAKEUP	75				36.20	4.04	YES	YES	YES	12.00	75
SEWAGE DISPOSAL: METHOD (PS, ST, SW, OT) ^{1/}	76		YES	YES	YES	YES	YES	YES	YES	YES	76
RECEIVING WATER BODY	77		ST	PS	ST	OT	OT	PACIFIC OCEAN			77
POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	78		0	SEEPAGE PIT							78
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79			7.50							79
VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	80										80
	81										81
	82										82

COOLING FACILITY DATA

NO. OF UNITS AND CAPACITY (MW) USING: ^{2/} ONCE THROUGH COOLING (FRESH)	83										83
ONCE THROUGH COOLING (ISALINE)	84	2	435.20	8	1,579.45		1	450.00			84
COOLING POND(S)	85										85
COOLING TOWER(S)	86					2	130.56			755.00	86
COMBINATIONS ^{2/}	87										87
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88		1959	1948	1967	1957	1958	1966		1970	88
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST ^{2/}	89		23.00	20.00	22.00		16.10	18.00		25.40	89
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90		384.00		1,735.20		173.00	793.00		602.00	90
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91		394.00		1,733.00			793.00			91

CAPITAL COSTS OF COOLING FACILITIES

ONCE THROUGH COOLING SYSTEMS (\$1,000)	92		1,216.00		8,164.00			6,847.00			92
COOLING PONDS (\$1,000)	93										93
COOLING TOWERS (\$1,000)	94					369.00					94

ANNUAL COOLING WATER EXPENSES

OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95		67.00		173.90		4.09	77.50			95
COST OF CHEMICAL ADDITIVES (\$1,000)	96		10.00		.15		18.54	16.13		15.27	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97		27.00		142.70		34.00				97
COST OF CHEMICAL ADDITIVES (\$1,000)	98		9.00		19.30		2.50			3.60	98

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	SOUTHERN CALIFORNIA EDISON CO.	1	SOUTHERN ELECTRIC GENERATING CO.	1	SOUTHERN INDIANA G. E. CO.	1	SOUTHERN INDIANA G. E. CO.	1	SOUTHERN INDIANA G. E. CO.
2	NAME OF PLANT	2	ORMOND BEACH	2	GASTON	2	CULLEY	2	OHIO RIVER	2	HARRICK
3	UTILITY-PLANT CODE	3	450500-4700	3	451000-0100	3	452000-0100	3	452000-0300	3	452000-0500
4	STATE	4	CALIFORNIA	4	ALABAMA	4	INDIANA	4	INDIANA	4	INDIANA
5	COUNTY	5	VENTURA	5	SHELBY	5	HARRICK	5	VANDERBURGH	5	HARRICK
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	024	6	004	6	077	6	077	6	077
7	PLANT CAPACITY (MW)	7	18	7	03	7	05	7	05	7	05
8	ANNUAL GENERATION (MWH) 2/	8	806,40	8	1,000,00	8	149,70	8	121,50	8	732,00
9	PLANT HEAT RATE (BTU/KWH) 2/	9	196,880	9	7,209,000	9	745,500	9	183,200	9	706,400
10		10	9,349	10	9,437	10	11,314	10	13,401	10	60,960
11		11		11		11		11		11	
AIR QUALITY CONTROL DATA											
FUEL CONSUMPTION DATA (ANNUAL)											
12	COAL: CONSUMPTION (1,000 TONS)	12		12	2,951.00	12	402.40	12	4.00	12	1,933.10
13	AVERAGE HEAT CONTENT (BTU/LB)	13		13	11,509	13	10,476	13	10,685	13	11,144
14	AVERAGE SULFUR CONTENT (%)	14		14	1.07	14	4.47	14	4.60	14	3.55
15	AVERAGE ASH CONTENT (%)	15		15	14.73	15	15.78	15	13.60	15	10.09
16	AVERAGE MOISTURE CONTENT (%)	16		16	7.51	16	13.15	16	12.40	16	12.04
17	OIL: CONSUMPTION (1,000 BARRELS)	17	254.00	17		17		17	63.80	17	3.60
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	142,857	18	136,500	18	138,000	18	137,944	18	140,000
19	AVERAGE SULFUR CONTENT (%)	19	.44	19	.36	19	.10	19	.20	19	.10
20	GAS: CONSUMPTION (1,000 MCF)	20	144.68	20		20		20	2,108.80	20	37.30
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,069	21		21		21	1,007	21	1,000
PLANT EQUIPMENT DATA											
22	BOILERS: - TOTAL NO.	22	1	22	4	22	2	22	8	22	4
23	- NO. OF WET BOTTOM	23		23		23		23		23	
24	- NO. WITH FLY ASH REINJECTION	24		24		24		24		24	
25	- NO. WITH MECHANICAL PRECIPITATORS	25		25		25		25		25	
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26		26	3	26	2	26	4	26	3
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27		27	1	27		27		27	1
28	- NO. WITH DESULFURIZATION SYSTEMS	28		28		28		28		28	
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	9.00	29	23.00	29	24.00	29	5.00	29	18.00
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30		30		30	85.00	30	76.00	30	85.00
31	TESTED, LOW - HIGH	31		31		31		31		31	
32	ESTIMATED, LOW - HIGH	32		32		32	85.00	32	76.00	32	85.00
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/:	33		33	95.00	33	99.00	33		33	98.00
34	DESIGN, LOW - HIGH	34		34	42.00	34	95.50	34		34	98.00
35	TESTED, LOW - HIGH	35		35	40.00	35	84.00	35		35	98.00
36	EST., LOW - HIGH	36		36		36		36		36	
37	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	37		37		37		37		37	
38	TESTED, LOW - HIGH	38		38		38		38		38	
39	ESTIMATED, LOW - HIGH	38		38		38		38		38	
PLANT OPERATING DATA AND COST OF EQUIPMENT											
39	EST. TOTAL ANNUAL PLANT EMISSIONS 7/:	39		39	111.23	39	6.19	39	.11	39	17.54
40	PARTICULATE MATTER (1,000 TONS)	40	.04	40	61.90	40	35.26	40	.40	40	134.51
41	SULFUR DIOXIDE (1,000 TONS)	41	.37	41	26.58	41	6.04	41	.59	41	17.40
42	NITROGEN OXIDES (1,000 TONS)	42	.59	42		42		42		42	
43	STACKS: - TOTAL NO.	43	1	43	4	43	2	43	3	43	3
44	- HEIGHT (FEET), LOWEST - HIGHEST 8/	44	237.00	44	250.00	44	249.00	44	276.00	44	250.00
45	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	45		45		45		45		45	400.00
46	TOTAL ASH: COLLECTED (1,000 TONS) 10/	46		46	337.30	46	55.90	46	.54	46	177.50
47	SOLO (1,000 TONS) 11/	47		47	21.30	47		47		47	
48	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	48		48		48		48		48	
49	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	49		49		49		49		49	
50	ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	50		50		50		50		50	
51	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	51		51		51	98.00	51	39.00	51	207.00
52	ELECTROSTATIC PRECIPITATORS (\$1,000)	52		52		52		52		52	725.00
53	COMBINATION PRECIPITATORS (\$1,000) 4/	53		53		53		53		53	
54	DESULFURIZATION SYSTEMS (\$1,000)	54		54		54		54		54	
55	STACKS (\$1,000)	55	237.00	55	642.00	55	164.00	55	153.00	55	1,544.00
56	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	56		56	120.00	56	50.00	56	.11	56	170.00
57	REVENUES FROM SALE OF ASH (\$1,000)	57		57	18.00	57		57		57	
58	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	58		58		58		58		58	
59	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	59		59		59		59		59	
60	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	60		60	120.00	60	50.00	60	.11	60	170.00
61	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	61		61	18.00	61		61		61	
WATER QUALITY CONTROL DATA											
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	O PACIFIC OCEAN	61	R COOSA	61	R OHIO	61	R OHIO	61	R OHIO
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	530.00	62	1,420.00	62	210.30	62	200.00	62	728.00
63	AVERAGE RATE OF DISCHARGE (CFS)	63	530.00	63	1,419.69	63	210.30	63	200.00	63	728.00
64	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	64	4.56	64	12.21	64	1.81	64	1.72	64	6.26
65	PEAK LOAD MONTH: SEP	65	SEP	65	AUG	65	JUL	65	JUN	65	JUL
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	90.00	66	62.00	66	86.00	66	52.00	66	88.00
67	AT OUTFALL, SUMMER - WINTER	67	110.00	67	80.00	67	100.00	67	72.00	67	108.00
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68	UNLIMITED	68	9,725.00	68	56,000.00	68	56,000.00	68	55,000.00
69	- WINTER	69	UNLIMITED	69	17,492.00	69	225,000.00	69	225,000.00	69	250,000.00
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OIB	70		70		70		70		70	
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71		71		71	.10	71	1.50	71	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72		72	107.50	72	11.00	72	.03	72	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73		73	24.00	73	8.50	73	2.00	73	
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74		74	1.35	74	10.10	74	1.09	74	
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75		75		75		75		75	
76	OTHER (TONS), COOLING WATER - BOILER MAKEUP	76	YES	76	YES	76	YES	76	YES	76	26.00
77	SEWAGE DISPOSAL: METHOD (PS, ST, SW, OT) 15/	77	ST/OT	77	R COOSA	77	ST	77	PS	77	OT
78	RECEIVING WATER BODY	78		78		78	R OHIO	78		78	R OHIO
79	POND DISCHARGE: PM, BOILER BLOWDOWN - ASH SETTLING	79		79	10.20	79	10.50	79	11.00	79	9.00
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80		80	5.00	80	90.00	80	500.00	80	300.00
81	VOLUME (1,000 CU.FT./YR.), BOILER BLOWDOWN	81		81		81	693.42	81		81	
82	- ASH SETTLING	82		82	315,000.00	82		82	7.00	82	138,000.00
COOLING FACILITY DATA											
83	NO. OF UNITS AND CAPACITY (TMI) USING: ONCE THROUGH COOLING (FRESH)	83	1	83	4	83	2	83	7	83	4
84	ONCE THROUGH COOLING (SALINE)	84		84		84		84		84	
85	COOLING POND(S)	85		85		85		85		85	
86	COOLING TOWER(S)	86		86		86		86		86	
87	COMBINATION 16/	87		87		87		87		87	
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1971	88	1960	88	1955	88	1966	88	1958
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 17/	89		89	12.98	89	13.30	89	18.10	89	17.40
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	530.00	90	1,286.00	90	241.77	90	686.00	90	23.60
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	530.00	91	1,420.00	91	254.50	91	345.00	91	755.00
CAPITAL COSTS OF COOLING FACILITIES											
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	5,448.00	92	5,898.00	92	688.00	92	154.00	92	3,821.00
93	COOLING PONDS (\$1,000)	93		93		93		93		93	
94	COOLING TOWERS (\$1,000)	94		94		94		94		94	
ANNUAL COOLING WATER EXPENSES											
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95		95	6.00	95	27.00	95	40.00	95	5.00
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	.32	96		96	1.80	96	1.00	96	4.00
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES											
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97		97	114.00	97	13.00	97	10.00	97	
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	.97	98	20.00	98	5.80	98	2.00	98	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10. INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	SOUTHWEST PUBLIC SERVICE CO.	SOUTHWEST PUBLIC SERVICE CO.	SOUTHWEST PUBLIC SERVICE CO.	SOUTHWEST PUBLIC SERVICE CO.	SOUTHWEST PUBLIC SERVICE CO.	1
2		2						2
3		3						3
4	NAME OF PLANT	4	CARLSBAO	CUNNINGHAM	DENVER CITY	EAST PLANT	MOORE	4
5	UTILITY-PLANT CODE	5	453000-0200	453000-0400	453000-0500	453000-0600	453000-1000	5
6	STATE	6	NEW MEXICO	NEW MEXICO	TEXAS	TEXAS	TEXAS	6
7	COUNTY	7	EODY	LEA	YOKAHU	POTTER	MOORE COUNTY	7
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	8	155 13	155 13	211 12	211 11	211 11	8
9	PLANT CAPACITY (MM)	9	44.30	265.40	80.00	71.00	68.20	9
10	ANNUAL GENERATION (MWH) 3/	10	174,900	1,139,800	477,400	352,500	463,300	10
11	PEAK GENERATION RATE (RTU/MWH) 3/	11	14,197	10,324	12,950	14,857	12,139	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	12						12
13	AVERAGE HEAT CONTENT (8TU/LB)	13						13
14	AVERAGE SULFUR CONTENT (%)	14						14
15	AVERAGE ASH CONTENT (%)	15						15
16	AVERAGE MOISTURE CONTENT (%)	16						16
17	CTL: CONSUMPTION (1,000 BARRELS)	17	8.20					17
18	AVERAGE HEAT CONTENT (8TU/GAL)	18	135.000					18
19	AVERAGE SULFUR CONTENT (%)	19	20					19
20	CONSUMPTION (1,000 MCF)	20	2,437.00	11,768.00	5,951.00	5,712.00	6,065.00	20
21	AVERAGE HEAT CONTENT (8TU/CU.FT.)	21	1,000	1,000	1,040	917	927	21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	22	5	2	4	7	2	22
23	- NO. OF WET BOTTOM	23						23
24	- NO. WITH FLY ASH REINJECTION	24						24
25	- NO. WITH MECHANICAL PRECIPITATORS	25						25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26						26
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27						27
28	- NO. WITH OESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	10.00	10.00	10.00	2.50	5.00	10.00
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30						30
31	TESTED, LOW - HIGH	31						31
32	ESTIMATEO, LOW - HIGH	32						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 5/ DESIGN, LOW - HIGH	33						33
34	TESTED, LOW - HIGH	34						34
35	EST., LOW - HIGH	35						35
36	OESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36						36
37	TESTED, LOW - HIGH	37						37
38	ESTIMATEO, LOW - HIGH	38						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS ^{2a}	PARTICULATE MATTER (1,000 TONS)	39						39
40		SULFUR DIOXIDE (1,000 TONS)	40						40
41		NITROGEN OXIDES (1,000 TONS)	41						41
42	STACKS: - TOTAL NO.		42	5	2.29	1.16	1.11	1.18	42
43	- HEIGHT (FEET), LOWEST - HIGHEST ^{1/}		43	53.00	136.00	146.00	57.00	96.00	43
44	COMBUSTION CYCLE ADJUSTIVES (1,000 TONS) ^{2/}		44				50.00	80.00	44
45	TOTAL ASH: COLLECTED (1,000 TONS) ^{10/}		45					58.00	97.00
46	SOLO (1,000 TONS) ^{11/}		46						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)		47						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) ^{12/}		48						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)		49						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)		50						50
51	ELECTROSTATIC PRECIPITATORS (\$1,000)		51						51
52	COMBINATION PRECIPITATORS (\$1,000) ^{14/}		52						52
53	DESULFURIZATION SYSTEMS (\$1,000) ¹		53						53
54	STACKS (\$1,000)		54						54
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)		55	9.35	36.60	22.60	13.00	10.98	55
56	REVENUES FROM SALE OF ASH (\$1,000)		56						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)		57						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)		58						58
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) ^{13/}		59						59
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)		60						60

WATER QUALITY CONTROL DATA

[illegible]

COOLING FACILITY DATA

[illegible]

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92						92
93	COOLING PONDS (\$1,000)	93						93
94	COOLING TOWERS (\$1,000)	94	396.60	1,421.40	717.00	530.80	706.10	94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	25.00	20.00	34.00	90.00	26.00	95
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	1.00	12.00	9.00	8.00	7.00	96
OPERATION AND MAINTENANCE AND CHEMICAL TREATMENT EXPENSES								

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	11.00	15.00	22.00	17.00	21.00	97
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	1.00	1.00	1.00	1.00	1.00	98

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	SOUTHWEST PUBLIC SERVICE CO.	SOUTHWEST PUBLIC SERVICE CO.	SOUTHWEST PUBLIC SERVICE CO.	SOUTHWEST PUBLIC SERVICE CO.	SOUTHWESTERN PUBLIC SERVICE CO.
2	NAME OF PLANT	2	NICHOLS	PLANT X	RIVERVIEW	ROSMELL	JONES
3	UTILITY-PLANT CODE	3	453000-1100	453000-1300	453000-1400	453000-1500	453000-1700
4	STATE	4	TEXAS	TEXAS	TEXAS	NEW MEXICO	TEXAS
5	COUNTY	5	POTTER	LAMB	HUTCHINSON	CHAVES	LU880CK
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	211	11	211	12	155
7	PLANT CAPACITY (MWH)	7	474.77	434.40	34.50	24.20	247.50
8	ANNUAL GENERATION (MWH) 3/	8	1,855,700	2,056,100	172,800	5,400	589,255
9	PLANT HEAT RATE (BTU/KWH) 3/	9	10,157	10,260	13,127	19,269	10,309
10	AIR QUALITY CONTROL DATA						
11	FUEL CONSUMPTION DATA (ANNUAL)						
12	COAL: CONSUMPTION (1,000 TONS)	12					
13	AVERAGE HEAT CONTENT (BTU/LB)	13					
14	AVERAGE SULFUR CONTENT (%)	14					
15	AVERAGE ASH CONTENT (%)	15					
16	AVERAGE MOISTURE CONTENT (%)	16					
17	OIL: CONSUMPTION (1,000 BARRELS)	17		24.27		5.20	
18	AVERAGE HEAT CONTENT (BTU/GAL)	18		138,000		132,885	
19	AVERAGE SULFUR CONTENT (%)	19		10		72	
20	GAS: CONSUMPTION (1,000 MCF)	20	20,193.00	20,975.00	2,174.00	1,249.00	5,890.00
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	933	1,000	1,193	1,000	1,033
22	PLANT EQUIPMENT DATA						
23	BOILERS: - TOTAL NO.	23	3	4	9	3	1
24	- NO. OF WET BOTTOM	24					
25	- NO. WITH FLY ASH REINJECTION	25					
26	- NO. WITH MECHANICAL PRECIPITATORS	26					
27	- NO. WITH ELECTROSTATIC PRECIPITATORS	27					
28	- NO. WITH COMBINATION PRECIPITATORS 4/	28					
29	- NO. WITH DESULFURIZATION SYSTEMS	29					
30	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	30	10.00	10.00	10.00	10.00	10.00
31	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	31					
32	TESTED, LOW - HIGH	32					
33	ESTIMATED, LOW - HIGH	33					
34	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/	34					
35	DESIGN, LOW - HIGH	35					
36	TESTED, LOW - HIGH	36					
37	ESTIMATED, LOW - HIGH	37					
38	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	38					
39	TESTED, LOW - HIGH	39					
40	ESTIMATED, LOW - HIGH	40					
41	PLANT OPERATING DATA AND COST OF EQUIPMENT						
42	EST. TOTAL ANNUAL PLANT EMISSIONS 7/	42					
43	PARTICULATE MATTER (1,000 TONS)	43					
44	SULFUR DIOXIDE (1,000 TONS)	44					
45	NITROGEN OXIDES (1,000 TONS)	45					
46	STACKS: - TOTAL NO.	46	3	4	5	3	1
47	- HEIGHT (FEET), LOWEST - HIGHEST 8/	47					
48	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	48					
49	TOTAL ASH: COLLECTED (1,000 TONS) 10/	49	160.00	85.00	153.00	80.00	49.00
50	SOLO (1,000 TONS) 11/	50					
51	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	51					
52	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	52					
53	ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	53					
54	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	54					
55	ELECTROSTATIC PRECIPITATORS (\$1,000)	55					
56	COMBINATION PRECIPITATORS (\$1,000) 4/	56					
57	DESULFURIZATION SYSTEMS (\$1,000)	57					
58	STACKS (\$1,000)	58	61.00	61.18	17.30	9.60	32.00
59	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	59					
60	REVENUES FROM SALE OF ASH (\$1,000)	60					
61	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	61					
62	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	62					
63	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	63					
64	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	64					
65	WATER QUALITY CONTROL DATA						
66	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	66					
67	AVERAGE RATE OF WITHDRAWAL (CFS)	67					
68	AVERAGE RATE OF DISCHARGE (CFS)	68					
69	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	69					
70	PEAK LOAD MONTH: SUMMER - WINTER 15/	70					
71	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	71					
72	AT OUTFALL, SUMMER - WINTER	72					
73	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	73					
74	- WINTER	74					
75	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OR	75					
76	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	76					
77	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	77					
78	LIME (TONS), COOLING WATER - BOILER MAKEUP	78					
79	ALUM (TONS), COOLING WATER - BOILER MAKEUP	79					
80	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	80					
81	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	81					
82	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 16/	82					
83	RECEIVING WATER BODY	83					
84	POND DISCHARGE 17/	84					
85	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	85					
86	VOLUME (1,000 CU.FT./YR.), BOILER BLOWDOWN	86					
87	- ASH SETTLING	87					
88	COOLING FACILITY DATA						
89	NO. OF UNITS AND CAPACITY (MWH) USING 18/	89					
90	ONCE THROUGH COOLING (FRESH)	90					
91	ONCE THROUGH COOLING (SALINE)	91					
92	COOLING PONDS (1)	92					
93	COOLING TOWERS (1)	93					
94	COMBINATIONS 19/	94					
95	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	95					
96	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 20/	96					
97	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	97					
98	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	98					
99	CAPITAL COSTS OF COOLING FACILITIES						
100	ONCE THROUGH COOLING SYSTEMS (\$1,000)	100					
101	COOLING PONDS (\$1,000)	101					
102	COOLING TOWERS (\$1,000)	102					
103	ANNUAL COOLING WATER EXPENSES						
104	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	104					
105	COST OF CHEMICAL ADDITIVES (\$1,000)	105					
106	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES						
107	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	107					
108	COST OF CHEMICAL ADDITIVES (\$1,000)	108					

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	SOUTHWESTERN	SOUTHWESTERN	SOUTHWESTERN	SOUTHWESTERN	SOUTHWESTERN	1
2	NAME OF PLANT	2	ELECTRIC POWER	ELECTRIC POWER	ELECTRIC POWER	ELECTRIC POWER	ELECTRIC POWER	2
3	UTILITY-PLANT CODE	3	CO.	CO.	CO.	CO.	CO.	3
4	STATE	4	ARSENAL HILL	KNOX LEE	LIEBERMAN	LONE STAR	WILKES	4
5	COUNTY	5	454000-0100	454000-0200	454000-0300	454000-0400	454000-0500	5
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	LOUISIANA	TEXAS	LOUISIANA	TEXAS	TEXAS	6
7	PLANT CAPACITY (MMH) 3/	7	CA000	GREGG	CA000	MORRIS	MARION	7
8	ANNUAL GENERATION (MMH) 3/	8	022 11	022 12	022 11	022 11	022 11	8
9	PLANT HEAT RATE (BTU/KWH) 3/	9	170,000	186,000	277,000	50,000	881,520	9
10		10	315,600	1,227,400	1,147,400	266,100	3,715,400	10
11		11	11,444	12,167	10,547	12,046	9,989	11
AIR QUALITY CONTROL DATA								
FUEL CONSUMPTION DATA (ANNUAL)								
12	COAL: CONSUMPTION (1,000 TONS)	12						12
13	AVERAGE HEAT CONTENT (BTU/LB)	13						13
14	AVERAGE SULFUR CONTENT (%)	14						14
15	AVERAGE ASH CONTENT (%)	15						15
16	AVERAGE MOISTURE CONTENT (%)	16						16
17	OIL: CONSUMPTION (1,000 BARRELS)	17			146,000			17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18						18
19	AVERAGE SULFUR CONTENT (%)	19						19
20	GAS: CONSUMPTION (1,000 MCF)	20	3,357.10	14,615.00	11,394.00	3,114.00	37,157.00	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,076	1,022	1,062	1,029	999	21
PLANT EQUIPMENT DATA								
22	BOILERS: - TOTAL NO.	22	9	4	4	1	3	22
23	- NO. OF HOT BOTTOM	23						23
24	- NO. WITH FLY ASH REINJECTION	24						24
25	- NO. WITH MECHANICAL PRECIPITATORS	25						25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26						26
27	- NO. WITH COMBINATION PRECIPITATORS 1/	27						27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%) LOWEST BOILER - HIGHEST BOILER	29	7.00 15.00	7.00 8.00	15.00 17.00	7.00	6.00 7.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, TESTED, ESTIMATED, LOW - HIGH	30						30
31	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 1/2: DESIGN, TESTED, ESTIMATED, LOW - HIGH	31						31
32	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, TESTED, ESTIMATED, LOW - HIGH	32						32
33		33						33
34		34						34
35		35						35
36		36						36
37		37						37
38		38						38
PLANT OPERATING DATA AND COST OF EQUIPMENT								
39	EST. TOTAL ANNUAL PLANT EMISSIONS 3/4: PARTICULATE MATTER (1,000 TONS)	39						39
40	SULFUR DIOXIDE (1,000 TONS)	40						40
41	NITROGEN OXIDES (1,000 TONS)	41						41
42	STACKS: - TOTAL NO.	42						42
43	- HEIGHT (FEET); LOWEST - HIGHEST 1/	43	155.00 273.00	100.00 130.00	125.00 140.00	140.00	161.00 162.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 1/	44						44
45	TOTAL ASH: COLLECTED (1,000 TONS) 1/	45						45
46	SOLO (1,000 TONS) 1/	46						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 1/2	48						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	49						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50						50
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51						51
52	COMBINATION PRECIPITATORS (\$1,000) 1/	52						52
53	DESULFURIZATION SYSTEMS (\$1,000)	53						53
54	STACKS (\$1,000)	54	70.70	44.00	41.00	13.94	297.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55						55
56	REVENUES FROM SALE OF ASH (\$1,000)	56						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						58
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 1/2	59						59
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60						60
WATER QUALITY CONTROL DATA								
61	COOLING WATER: SOURCE (C, F, H, D, W, M, A, O, E, L, P, S, T, V, Y, Z)	61						61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62						62
63	AVERAGE RATE OF DISCHARGE (CFS)	63						63
64	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 1/	64						64
65	PEAK LOAD MONTH: COOLING WATER - BOILER MAKEUP	65						65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	JUL 95.00 NOV 85.00	JUL 91.00 NOV 77.00	JUL 95.00 NOV 79.00	JUL 89.00 NOV 75.00	JUL 101.00 NOV 90.00	66
67	AT OUTFALL, SUMMER - WINTER	67	JUL 113.00 NOV 105.00	JUL 108.00 NOV 88.00	JUL 114.00 NOV 97.00	JUL 101.00 NOV 87.00	JUL 126.00 NOV 111.00	67
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68						68
69	- WINTER	69						69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, W, M, A, O, E, L, P, S, T, V, Y, Z	70						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71						71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72						72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73						73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75						75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76						76
77	SEWAGE DISPOSAL: METHOD (P, S, T, V, Y, Z), RECEIVING WATER BODY	77	PS	ST	ST	OT	ST	77
78	POND DISCHARGE 1/2	78						78
79	BOILER BLOWDOWN - ASH SETTLING	79						79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80						80
81	VOLUME (1,000 CU.FT./YR.), BOILER BLOWDOWN	81						81
82	- ASH SETTLING	82						82
COOLING FACILITY DATA								
83	NO. OF UNITS AND CAPACITY (MMH) USING: ONCE THROUGH COOLING (FRESH)	83						83
84	ONCE THROUGH COOLING (SALINE)	84						84
85	COOLING PONDS (S)	85	5 170.00	4 186.00	4 277.20	1 50.00	3 881.50	85
86	COOLING TOWERS (S)	86						86
87	COMBINATION 1/2	87						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88						88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 1/2	89	10.00 18.00	8.40 15.80	12.00 18.00	14.00 18.00	21.00 21.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	468.00	435.00	416.00	122.00	787.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91						91
CAPITAL COSTS OF COOLING FACILITIES								
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92						92
93	COOLING PONDS (\$1,000)	93	187.80		723.70		1,112.00	93
94	COOLING TOWERS (\$1,000)	94						94
ANNUAL COOLING WATER EXPENSES								
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	2.10	2.00	3.00	3.00	3.20	95
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	1.10	1.50	1.50	1.50	1.80	96
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES								
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	3.20	3.00	5.00	4.00	4.20	97
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	1.00		2.80		1.20	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	SPRINGFIELD WATER	SPRINGFIELD WATER	ST. JOSEPH LIGHT	ST. JOSEPH LIGHT	TALLAHASSEE, CITY
2		2	LIGHT & POWER	LIGHT & POWER	& POWER CO.	& POWER CO.	OF
3		3	DEPT.	DEPT.			
4	NAME OF PLANT	4	OALLMAN	LAKESIDE	EDMOND	LAKEROAD	PURDOM
5	UTILITY-PLANT CODE	5	457000-0100	457000-0200	460000-0100	460000-0200	473500-0100
6	STATE	6	ILLINOIS	ILLINOIS	MISSOURI	MISSOURI	FLORIDA
7	COUNTY	7	SANGAMON	SANGAMON	BUCHANAN	BUCHANAN	WAKULLA
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	8	075 07	075 07	094 10	094 10	049 03
9	PLANT CAPACITY (MW)	9	80.00	146.00	42.50	150.50	118.00
10	ANNUAL GENERATION (MMH) 3/	10	505,700	406,200	49,100	1,006,800	582,100
11	PLANT HEAT RATE (BTU/KWH) 3/	11	11,202	13,507	16,965	11,817	12,808
AIR QUALITY CONTROL DATA							
FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)	12	279.40	254.50		45.70	
13	AVERAGE HEAT CONTENT (BTU/LB)	13	10,148	10,164		10,728	
14	AVERAGE SULFUR CONTENT (%)	14	3.82	3.83		3.61	
15	AVERAGE ASH CONTENT (%)	15	12.61	12.49		9.65	
16	AVERAGE MOISTURE CONTENT (%)	16	14.99	14.93		15.43	
17	OIL: CONSUMPTION (1,000 BARRELS)	17		18.10	13.65	8.21	148.90
18	AVERAGE HEAT CONTENT (BTU/GAL)	18		138,000	148,753	149,502	154,778
19	AVERAGE SULFUR CONTENT (%)	19		.60	2.80	2.46	1.60
20	GAS: CONSUMPTION (1,000 MCF)	20			1,828.09	12,659.29	6,232.30
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21			962	965	1,041
PLANT EQUIPMENT DATA							
22	BOILERS: - TOTAL NO.	22	1	8	5	6	7
23	- NO. OF WET BOTTOM	23	1	2		1	
24	- NO. WITH FLY ASH REINJECTION	24					
25	- NO. WITH MECHANICAL PRECIPITATORS	25	1	4	2	3	
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26		4			
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27					
28	- NO. WITH DESULFURIZATION SYSTEMS	28					
29	EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	15.00	15.00	20.00	10.00	15.00
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30	82.00		33.00	10.00	25.00
31	TESTED, LOW - HIGH	31	84.30		93.00	70.00	85.70
32	ESTIMATED, LOW - HIGH	32	85.00			67.00	83.00
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/ DESIGN, LOW - HIGH	33		70.00	80.00		
34	TESTED, LOW - HIGH	34			97.50		
35	EST., LOW - HIGH	35		84.40	96.80		
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36					
37	TESTED, LOW - HIGH	37					
38	ESTIMATED, LOW - HIGH	38					
PLANT OPERATING DATA AND COST OF EQUIPMENT							
39	EST. TOTAL ANNUAL PLANT EMISSIONS 7/	39	.53	.60		.38	.03
40	PARTICULATE MATTER (1,000 TONS)	40	20.92	19.15	.13		.80
41	SULFUR DIOXIDE (1,000 TONS)	41	7.68	5.82	.39	3.50	1.54
42	NITROGEN OXIDES (1,000 TONS)	42		9	3	6	6
43	STACKS: - TOTAL NO.	43					
44	- HEIGHT (FEET), LOWEST - HIGHEST 8/	44	300.00	125.00	300.00	75.00	189.00
45	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	45				92.00	225.00
46	TOTAL ASH: COLLECTED (1,000 TONS) 10/	46	35.20	30.30			84.00
47	SOLO (1,000 TONS) 11/	47					180.00
48	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	48				3.91	
49	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	49					
50	ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	50	125.00	39.80	23.20	176.10	
51	MECHANICAL PRECIPITATORS (1,000)	51		1,036.40			
52	ELECTROSTATIC PRECIPITATORS (1,000)	52					
53	COMBINATION PRECIPITATORS (1,000) 4/	53					
54	DESULFURIZATION SYSTEMS (1,000)	54					
55	STACKS (1,000)	55	230.00	640.00	145.89	270.60	90.00
56	ASH COLLECTION AND DISPOSAL EXPENSES (1,000)	56	43.60	83.70		3.00	
57	REVENUES FROM SALE OF ASH (1,000)	57					
58	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (1,000)	58					
59	REVENUES FROM SALE OF SULFUR PRODUCTS (1,000)	59					
60	TOTAL AIR QUALITY CONTROL EXPENSES (1,000) 13/	60	88.00	813.20		3.00	
61	TOTAL BYPRODUCT SALES REVENUES (1,000)	61					
WATER QUALITY CONTROL DATA							
62	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	62	L SPRINGFIELD	L SPRINGFIELD	R MISSOURI	RW MISSOURI	R ST. MARKS
63	AVERAGE RATE OF WITHDRAWAL (ICFS)	63			31.50	92.30	10.60
64	AVERAGE RATE OF DISCHARGE (ICFS)	64			31.50	92.30	10.60
65	AVERAGE RATE OF CONSUMPTION (ICFS), CALCULATED - REPORTED 14/	65					
66	PEAK LOAD MONTH: SUMMER - WINTER 15/	66	JUL FEB		.27	.79	.09
67	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	67	90.00 45.00		JUN DEC	JUN DEC	JUL JAN
68	AT OUTFALL, SUMMER - WINTER	68	98.00 56.00		81.00 34.00	81.00 35.00	87.00 57.00
69	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (ICFS): SUMMER - WINTER	69			105.00 60.00	99.00 93.00	92.00 378.00
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OIS/	70			78,600.00	78,600.00	325.00
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71			40,159.00	40,159.00	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	.15	.85	3.51	1.15	1.82
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73		17.00	.11	.20	.44
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74				181.18	.41
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75					
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76	.25 YES	.17 YES	.60 YES	3.08 YES	12.00 YES
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 16/	77	PS	PS	PS	OT	ST
78	RECEIVING WATER BODY	78					
79	POND DISCHARGE 17/	79					
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80	9.00	9.00			
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	81	4.00	4.00			
82		82	23,028.00	44,500.00			
COOLING FACILITY DATA							
83	NO. OF UNITS AND CAPACITY (MW) USING 18/	83	1	7	3	1	7
84	ONCE THROUGH COOLING (FRESH)	84	90.25	155.00	42.50	90.00	118.00
85	ONCE THROUGH COOLING (SALINE)	85					
86	COOLING POND(S)	86					
87	COOLING TOWER(S)	87				3	60.50
88	COMBINATIONS 19/	88					
89	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	89	1968	1935 1965	1920 1945	1951 1967	1952 1966
90	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 20/	90	15.00	13.65 14.11	12.00 13.00	18.30 26.30	15.00 89
91	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (ICFS)	91	137.00	339.00	129.23	12.20	286.40
92	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (ICFS)	92	156.00	481.00	129.30	114.60	367.00
CAPITAL COSTS OF COOLING FACILITIES							
93	ONCE THROUGH COOLING SYSTEMS (1,000)	93	258.00	510.00	175.00	580.10	750.00
94	COOLING PONDS (1,000)	94				218.70	
ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES (1,000)	95	24.70	54.40	16.73	8.45	2.00
96	COST OF CHEMICAL ADDITIVES (1,000)	96	.10	.25	.17	20.26	1.20
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
97	OPERATION AND MAINTENANCE EXPENSES (1,000)	97	7.20	24.00	16.97	86.26	7.00
98	COST OF CHEMICAL ADDITIVES (1,000)	98	.50	6.00	4.66	16.18	2.00

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

NAME OF UTILITY	TALLAHASSEE, CITY OF	TAMPA ELECTRIC CO.	TAMPA ELECTRIC CO.	TAMPA ELECTRIC CO.	TAUNTON MUNICIPAL LIGHTING PLT.
NAME OF PLANT	HOPKINS	GANNON	HOOKERS POINT	BIG BEND	CLEARY
UTILITY-PLANT CODE	473500-0300	474000-0100	474000-0200	474000-0300	475000-0100
STATE	FLORIDA	FLORIDA	FLORIDA	FLORIDA	MASSACHUSETTS
COUNTY	LEON	HILLSBOROUGH	HILLSBOROUGH	HILLSBOROUGH	BRISTOL
WATER QUALITY CONTROL REGION NO. ^{1/} - WATER RESOURCE REGION NO. ^{2/}	049 03	052 03	052 03	052 03	120 01
PLANT CAPACITY (MW)	181,500	4,736,700	1,268,600	1,458,800	145,300
ANNUAL GENERATION (MWH) ^{3/}		10,510	12,347	10,510	13,002
PLANT HEAT RATE (BTU/KWH) ^{4/}					

AIR QUALITY CONTROL DATA					
FUEL CONSUMPTION DATA (ANNUAL)					
COAL: CONSUMPTION (1,000 TONS)		2,213.42		674.50	
AVERAGE HEAT CONTENT (BTU/LB)		11,325		11,366	
AVERAGE SULFUR CONTENT (%)		3.40		3.38	
AVERAGE ASH CONTENT (%)		12.36		12.12	
AVERAGE MOISTURE CONTENT (%)		9.78		9.73	
OIL: CONSUMPTION (1,000 BARRELS)		5.55	2,465.57		296.00
AVERAGE HEAT CONTENT (BTU/GAL)	155,254		151,261		147,730
AVERAGE SULFUR CONTENT (%)	1.64		2.21		1.40
GAS: CONSUMPTION (1,000 MCF)		2,066.90			
AVERAGE HEAT CONTENT (BTU/CU.FT.)	1,040				

PLANT EQUIPMENT DATA					
BOILERS: - TOTAL NO.	1	6	6	1	2
- NO. OF WET BOTTOM		6		1	
- NO. WITH FLY ASH REINJECTION		6		1	
- NO. WITH MECHANICAL PRECIPITATORS					
- NO. WITH ELECTROSTATIC PRECIPITATORS		6		1	
- NO. WITH COMBINATION PRECIPITATORS ^{5/}					
- NO. WITH DESULFURIZATION SYSTEMS					
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER ^{6/}	10.00	13.00	16.00	13.00	20.00
MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH				15.00	10.00
TESTED, LOW - HIGH					
ESTIMATED, LOW - HIGH					
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY ^{8/} : DESIGN, LOW - HIGH		90.00	98.50	98.50	
TESTED, LOW - HIGH		91.30	99.30	98.50	
EST., LOW - HIGH		94.90	99.50	98.70	
DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH					
TESTED, LOW - HIGH					
ESTIMATED, LOW - HIGH					

PLANT OPERATING DATA AND COST OF EQUIPMENT					
EST. TOTAL ANNUAL PLANT EMISSIONS: ^{7/} PARTICULATE MATTER (1,000 TONS)		1.74	.41	1.93	.05
SULFUR DIOXIDE (1,000 TONS)	.03	147.50	18.28	44.68	1.39
NITROGEN OXIDES (1,000 TONS)	.42	47.31	5.44	10.12	.65
STACKS: - TOTAL NO.	1	7	4	1	2
- HEIGHT (FEET), LOWEST - HIGHEST ^{8/}	200.00	200.00	306.00	150.00	173.00
COMBUSTION CYCLE ADDITIVES (1,000 TONS) ^{9/}					
TOTAL ASH: COLLECTED (1,000 TONS) ^{10/}		392.60		155.20	
SOLO (1,000 TONS) ^{11/}		385.70		16.50	
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)					
EQUIVALENT OF ACID COLLECTED (1,000 TONS) ^{12/}					
ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)					
INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)					
ELECTROSTATIC PRECIPITATORS (\$1,000)		1,434.00		540.00	
COMBINATION PRECIPITATORS (\$1,000) ^{14/}					
DESULFURIZATION SYSTEMS (\$1,000)					
STACKS (\$1,000)		288.00	184.00	612.00	22.00
ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)		290.30	2.00	105.00	2.00
REVENUES FROM SALE OF ASH (\$1,000)		334.89		16.54	
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)					
REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)					
TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) ^{15/}		294.50	26.00	108.30	2.00
TOTAL BYPRODUCT SALES REVENUES (\$1,000)		334.89		16.54	

WATER QUALITY CONTROL DATA					
COOLING WATER: SOURCE (CODES R, L, B, C, M, S, EX, L, IN, F, OT, W, TS)		TAMPA	TAMPA	TAMPA	TAUNTON
AVERAGE RATE OF WITHDRAWAL (CFD)	1.29	1,961.00	390.00	534.00	38.00
AVERAGE RATE OF DISCHARGE (CFD)		1,961.00	390.00	534.00	38.00
AVERAGE RATE OF CONSUMPTION (CFD), CALCULATED - REPORTED ^{16/}	1.29	16.86	3.35	4.59	.33
PEAK LOAD MONTH: JUL	JAN	JUL	JAN	JUL	JUL
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER		91.00	72.00	89.00	65.00
AT OUTFALL, SUMMER - WINTER		103.00	82.00	113.00	90.00
AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFD): SUMMER - WINTER					
FREQUENCY OF TEMPERATURE MONITORING: C, M, O, D ^{17/}					
CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP					
CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	.22	2.30	2.08	.28	.21
LIME (TONS), COOLING WATER - BOILER MAKEUP		500.70	3.34	96.07	.15
ALUM (TONS), COOLING WATER - BOILER MAKEUP					
CHLORINE (TONS), COOLING WATER - BOILER MAKEUP					
OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	YES	YES	YES	YES	YES
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT ^{18/}	ST	DT	PS	OT	ST
RECEIVING WATER BODY	TAMPA	TAMPA	TAMPA	TAMPA	LEACHING FIELD
POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING					
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING					
VOLUME (1,000 CU.FT./YR), BOILER BLOWDOWN - ASH SETTLING					

COOLING FACILITY DATA					
NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)		6	1,270.38	5	232.60
ONCE THROUGH COOLING (SALINE)				1	450.00
COOLING PONDS ^{19/}	1	80.00			
COOLING TOWERS ^{20/}					
COMBINATIONS ^{21/}					
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	1971	1957	1967	1948	1955
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST ^{22/}	17.00	12.00	16.00	14.40	19.10
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFD)	124.80		1,961.00	390.40	535.00
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFD)			1,961.00	327.40	535.00

CAPITAL COSTS OF COOLING FACILITIES					
ONCE THROUGH COOLING SYSTEMS (\$1,000)		4,164.00		2,561.00	
COOLING PONDS (\$1,000)					250.00
COOLING TOWERS (\$1,000)	397.40				

ANNUAL COOLING WATER EXPENSES					
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	3.00	76.90	33.40	15.90	14.50
COST OF CHEMICAL ADDITIVES (\$1,000)	9.00	20.60	11.70	4.66	2.80

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES					
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	1.00	130.00	29.60	15.90	33.50
COST OF CHEMICAL ADDITIVES (\$1,000)	3.00	61.30	10.00	6.04	25.48

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10. INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	TAUNTON MUNICIPAL LIGHTING PLT.	2	TENNESSEE VALLEY AUTHORITY	3	TENNESSEE VALLEY AUTHORITY	4	TENNESSEE VALLEY AUTHORITY	5	TENNESSEE VALLEY AUTHORITY		
2	NAME OF PLANT	2	TAUNTON	3	ALLEN	4	BULL RUN	5	COLBERT A	6	COLBERT B		
3	UTILITY-PLANT CODE	3	475000-0200	4	477000-0100	5	477000-0500	6	477000-0900	7	477000-0905		
4	STATE	4	MASSACHUSETTS	5	TENNESSEE	6	TENNESSEE	7	ALABAMA	8	ALABAMA		
5	COUNTY	5	BRISTOL	6	SHELBY	7	ANDERSON	8	COLBERT	9	COLBERT		
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	120 01	7	018 08	8	207 06	9	007 06	10	007 06		
7	PLANT CAPACITY (MW)	7	46.00	8	990.00	9	950.00	10	846.50	11	550.00		
8	ANNUAL GENERATION (MWH) 2/	8	134,700	9	4,505,300	10	5,640,400	11	4,094,500	12	2,457,400		
9	PLANT HEAT RATE (BTU/KWH) 2/	9	14,635	10	9,750	11	9,060	12	9,860	13	9,650		
AIR QUALITY CONTROL DATA													
FUEL CONSUMPTION DATA (ANNUAL)													
12	COAL: CONSUMPTION (1,000 TONS)	12		13	1,109.30	14	2,184.90	15	1,731.90	16	994.30		
13	AVERAGE HEAT CONTENT (BTU/LB)	13		14	11,047	15	11,334	16	11,198	17	11,190		
14	AVERAGE SULFUR CONTENT (%)	14		15	3.33	16	1.64	17	4.17	18	4.19		
15	AVERAGE ASH CONTENT (%)	15		16	11.98	17	15.20	18	14.74	19	15.23		
16	AVERAGE MOISTURE CONTENT (%)	16		17	11.50	18	7.04	19	8.01	20	7.52		
17	OIL: CONSUMPTION (1,000 BARRELS)	17		18	420.00	19	.93	20	58.28	21	6.04		
18	AVERAGE HEAT CONTENT (BTU/GAL)	18		19	148,045	20	137,553	21	136,868	22	137,653		
19	AVERAGE SULFUR CONTENT (%)	19		20	1.42	21	.22	22	.38	23	.28		
20	GAS: CONSUMPTION (1,000 MCF)	20		21	17,809.90	22	1,047	23		24			
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21		22		23		24		25			
PLANT EQUIPMENT DATA													
22	BOILERS: - TOTAL NO.	22	7	23	3	24	1	25	4	26	1		
23	- NO. OF WET BOTTOM	23		24		25		26		27			
24	- NO. WITH FLY ASH REINJECTION	24		25		26		27		28			
25	- NO. WITH MECHANICAL PRECIPITATORS	25	1	26		27		28		29			
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26		27	3	28	1	29	3	30	1		
27	- NO. WITH COMBINATION PRECIPITATORS 2/	27		28		29		30		31			
28	- NO. WITH DESULFURIZATION SYSTEMS	28		29		30		31		32			
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 2/	29		30		31		32		33			
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30	15.00	31	13.00	32	20.00	33	20.00	34	20.00		
31	TESTED, LOW - HIGH	31		32		33		34		35			
32	ESTIMATED, LOW - HIGH	32	80.00	33		34		35		36			
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 2/	33		34	90.00	35	99.00	36	99.00	37	90.00		
34	DESIGN, LOW - HIGH	34		35		36		37		38			
35	TESTED, LOW - HIGH	35		36	70.00	37	70.00	38	81.00	39	80.00		
36	EST., LOW - HIGH	36		37		38		39		40			
37	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	37		38		39		40		41			
38	TESTED, LOW - HIGH	38		39		40		41		42			
39	ESTIMATED, LOW - HIGH	39		40		41		42		43			
PLANT OPERATING DATA AND COST OF EQUIPMENT													
39	EST. TOTAL ANNUAL PLANT EMISSIONS: 2/ PARTICULATE MATTER (1,000 TONS)	39		40	.05	41	3.81	42	53.64	43	66.42	44	49.22
40	SULFUR DIOXIDE (1,000 TONS)	40		41	2.00	42	72.40	43	70.31	44	141.55	45	81.66
41	NITROGEN DIOXIDES (1,000 TONS)	41		42	.93	43	39.98	44	19.79	45	12.99	46	7.47
42	STACKS: - TOTAL NO.	42		43	4	44	3	45	1	46	1	47	1
43	- HEIGHT (FEET), LOWEST - HIGHEST 2/	43		44		45		46		47		48	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 2/	44	94.00	45	250.00	46	400.00	47	800.00	48	300.00	49	500.00
45	TOTAL ASH: COLLECTED (1,000 TONS) 2/	45		46	.08	47	122.70	48	281.60	49	154.30	50	90.70
46	SOLO (1,000 TONS) 2/	46		47	.02	48	40.00	49	23.70	50		51	
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47		48		49		50		51		52	
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 2/	48		49		50		51		52		53	
49	ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	49		50		51		52		53		54	
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50		51		52		53		54		55	
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51		52		53	2,733.00	54	1,701.00	55	239.70	56	744.00
52	COMBINATION PRECIPITATORS (\$1,000) 2/	52		53		54		55		56	2,429.90	57	
53	DESULFURIZATION SYSTEMS (\$1,000)	53		54		55		56		57		58	
54	STACKS (\$1,000)	54		55	157.00	56		57	1,224.00	58	524.00	59	427.00
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	8.50	56		57	163.00	58	166.00	59	327.00	60	177.00
56	REVENUES FROM SALE OF ASH (\$1,000)	56		57		58		59		60		61	
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57		58		59		60		61		62	
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58		59		60		61		62		63	
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 2/	59	8.50	60	163.00	61	166.00	62	327.00	63	177.00	64	
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60		61	16.00	62		63	4.70	64		65	
WATER QUALITY CONTROL DATA													
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R TAUNTON	62	R MISSISSIPPI	63	R CLINCH	64	R TENNESSEE	65	R TENNESSEE	66	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	93.00	63	612.00	64	762.00	65	1,069.00	66	442.00	67	
63	AVERAGE RATE OF DISCHARGE (CFS)	63	93.00	64	611.00	65	761.00	66	1,063.00	67	439.00	68	
64	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 2/	64	.80	65	5.26	66	6.55	67	9.19	68	3.80	69	
65	PEAK LOAD MONTH: 2/	65	JUL	66	JUL	67	JUL	68	AUG	69	JUN	70	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	88.00	67	83.00	68	55.00	69	81.00	70	77.00	71	
67	AT OUTFALL, SUMMER - WINTER	67	98.00	68	109.00	69	75.00	70	94.00	71	91.00	72	
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	68		69	309,000.00	70	7,600.00	71	88,000.00	72	36,000.00	73	
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OIL	69		70	513,000.00	71	3,300.00	72	69,000.00	73	69,000.00	74	
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70		71	.98	72		73	.45	74		75	
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71		72	3.13	73	23.75	74		75	57.50	76	
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	72		73		74		75		76		77	
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	73		74		75		76		77		78	
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74		75		76		77		78		79	
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75	21.00	76	26.75	77		78	8.25	79	4.25	80	
76	SEWAGE DISPOSAL: METHOD PS, ST, SW, OTM	76	PS	77	PS	78	OT	79	ST	80	ST	81	
77	RECEIVING WATER BODY	77	PS	78	PS	79	OT	80	ST	81	ST	82	
78	POND DISCHARGE: 2/	78		79		80		81		82		83	
79	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79		80	7.50	81	6.90	82	11.90	83		84	
80	VOLUME (1,000 CU.FT./YR.), BOILER BLOWDOWN - ASH SETTLING	80		81	28.00	82	110.00	83	107.00	84		85	
81	BOILER BLOWDOWN - ASH SETTLING	81		82		83		84		85		86	
82		82		83	35,000.00	84	49,000.00	85	342,000.00	86		87	
COOLING FACILITY DATA													
83	NO. OF UNITS AND CAPACITY (TMI) USING: 2/ ONCE THROUGH COOLING (FRESH)	83		84	3	85	1	86	4	87	1	88	
84	ONCE THROUGH COOLING (SALINE)	84	5	85	44.00	86	990.00	87	950.00	88	846.50	89	550.00
85	COOLING POND(S)	85		86		87		88		89		90	
86	COOLING TOWER(S)	86		87		88		89		90		91	
87	COMBINATIONS 2/	87		88		89		90		91		92	
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1933	89	1958	90	1958	91	1959	92	1966	93	1954
89	DESIGN: TMP, RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 2/	89	14.00	90	20.00	91	20.00	92	17.90	93	13.20	94	14.40
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90		91	94.60	92	768.60	93	885.60	94	1,270.00	95	654.00
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91		92	94.60	93	885.60	94	950.76	95	1,354.64	96	695.14
CAPITAL COSTS OF COOLING FACILITIES													
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92		93	515.00	94		95	2,042.00	96	2,688.00	97	1,694.00
93	COOLING PONDS (\$1,000)	93		94		95		96		97		98	
94	COOLING TOWERS (\$1,000)	94		95		96		97		98		99	
ANNUAL COOLING WATER EXPENSES													
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95		96	16.00	97	26.00	98	18.00	99	28.00	100	16.00
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96		97	3.50	98	3.00	99		100		101	
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES													
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97		98	28.00	99	4.00	100	7.00	101	44.00	102	41.00
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98		99	.50	100	10.00	101	41.00	102	13.00	103	8.00

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	TENNESSEE VALLEY	TENNESSEE VALLEY	TENNESSEE VALLEY	TENNESSEE VALLEY	TENNESSEE VALLEY	1
2		2	AUTHORITY	AUTHORITY	AUTHORITY	AUTHORITY	AUTHORITY	2
3		3						3
4	NAME OF PLANT	4	GALLATIN	SEVIER	JOHNSONVILLE	KINGSTON	PARADISE	4
5	UTILITY-PLANT CODE	5	477000-1400	477000-1800	477000-1900	477000-2100	477000-3000	5
6	STATE	6	TENNESSEE	TENNESSEE	TENNESSEE	TENNESSEE	KENTUCKY	6
7	COUNTY	7	SUMNER	HAWKINS	HUMPHREYS	ROANE	MUHLBERG	7
8	AIR QUALITY CONTROL REGION NO. ^{1/} - WATER RESOURCE REGION NO. ^{2/}	8	208 05	207 06	208 06	207 06	072 05	8
9	PLANT CAPACITY (MM)	9	1,255.20	823.25	1,485.20	1,700.00	2,558.20	9
10	ANNUAL GENERATION (MMH) ^{3/}	10	6,585,400	3,857,600	6,316,100	8,927,900	12,941,800	10
11	PLANT HEAT RATE (BTU/KWH) ^{3/}	11	9,290	9,580	10,340	9,590	9,450	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)								
12	COAL: CONSUMPTION (1,000 TONS)	12	2,610.80	1,587.00	2,612.20	3,935.20	6,094.20	12
13	AVERAGE HEAT CONTENT (BTU/LB)	13	10,630	11,522	11,115	10,958	10,145	13
14	AVERAGE SULFUR CONTENT (%)	14	3.33	1.77	3.72	2.05	4.11	14
15	AVERAGE ASH CONTENT (%)	15	16.98	14.98	13.51	18.84	19.26	15
16	AVERAGE MOISTURE CONTENT (%)	16	9.17	6.65	9.42	6.20	9.37	16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	13.30	7.48	13.19	17.68	53.55	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	137,985	137,600	135,438	138,088	135,641	18
19	AVERAGE SULFUR CONTENT (%)	19	.21	.20	.14	.39	.26	19
20	GAS: CONSUMPTION (1,000 MCF)	20						20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21						21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	22	4	4	10	9	3	22
23	- NO. OF WET BOTTOM	23					3	23
24	- NO. WITH FLY ASH REINJECTION	24						24
25	- NO. WITH MECHANICAL PRECIPITATORS	25	2	4	10			25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26					3	26
27	- NO. WITH COMBINATION PRECIPITATORS ^{4/}	27	4			9		27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER ^{5/}	29	20.00	20.00	18.00	20.00	16.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30	72.00	84.00	85.00	86.00		30
31	TESTED, LOW - HIGH	31			70.00	81.00		31
32	ESTIMATED, LOW - HIGH	32			60.00	70.00		32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY ^{6/} DESIGN, LOW - HIGH	33	98.60	99.20		99.30	98.00	33
34	TESTED, LOW - HIGH	34	91.20	95.00		91.50	98.00	34
35	EST., LOW - HIGH	35	94.00	96.80		92.50	95.00	35
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36						36
37	TESTED, LOW - HIGH	37						37
38	ESTIMATED, LOW - HIGH	38						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS: ^{7/} PARTICULATE MATTER (1,000 TONS)	39	17.98	101.04	97.53	48.35	5.87	39
40	SULFUR DIOXIDE (1,000 TONS)	40	170.40	55.06	190.46	158.12	490.92	40
41	NITROGEN DIOXIDES (1,000 TONS)	41	23.50	14.28	21.79	35.42	167.59	41
42	STACKS: - TOTAL NO.	42	2	2	8	9	3	42
43	- HEIGHT (FEET), LOWEST - HIGHEST ^{8/}	43	500.00	350.00	270.00	400.00	250.00	43
44	COMBUSTION CYCLE ADJUSTIVES (1,000 TONS) ^{9/}	44						44
45	TOTAL ASH: COLLECTED (1,000 TONS) ^{10/}	45	416.20	142.40	252.40	696.10	1,156.20	45
46	SOLD (1,000 TONS) ^{11/}	46	.40			34.40		46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) ^{12/}	48						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50	229.00	282.40	731.00		6,698.00	50
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51						51
52	COMBINATION PRECIPITATORS (\$1,000) ^{4/}	52	5,524.00			2,409.00		52
53	DESULFURIZATION SYSTEMS (\$1,000)	53						53
54	STACKS (\$1,000)	54	715.00	372.00	360.00	1,098.00	962.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	347.00	187.00	212.00	653.00	2,048.00	55
56	REVENUES FROM SALE OF ASH (\$1,000)	56	.70			68.70		56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						58
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) ^{13/}	59	347.00	187.00	212.00	653.00	2,048.00	59
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60	.70			68.70		60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)				61	R CUMBERLAND	R HOLSTON	R TENNESSEE	R CLINCH	R GREEN	61
62	AVERAGE RATE OF WITHDRAWAL (CFD)				62	1,080.00	812.00	1,819.00	1,825.00	861.00	62
63	AVERAGE RATE OF DISCHARGE (CFD)				63	1,064.00	808.00	1,806.00	1,806.00	832.00	63
64	AVE. RATE OF CONSUMPTION (CFD), CALCULATED - REPORTED ^{14/}				64	9.29	6.98	15.64	11.00	29.00	64
65	PEAK LOAD MONTH: SUMMER - WINTER ^{15/}				65	JUL JAN	JUN NOV	JUN APR	JUN JAN	AUG MAR	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER				66	68.00 47.00	74.00 56.00	79.00 62.00	63.00 40.00	78.00 49.00	66
67	AT OUTFALL, SUMMER - WINTER				67	82.00 61.00	91.00 73.00	92.00 75.00	79.00 56.00	75.00 67	
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFD): SUMMER - WINTER				68	12,700.00	4,200.00	43,600.00	6,700.00	8,700.00	68
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D ^{15/}				69	23,500.00	4,600.00	44,400.00	7,800.00	10,300.00	69
70	CHEMICAL ADJUSTIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP				70		.90	4.15	2.14		70
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP				71	.55	.11	1.10	2.03	157.50	71
72	LIME (TONS), COOLING WATER - BOILER MAKEUP				72						72
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP				73						73
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP				74	1.85	7.65	20.00	24.50		74
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP				75	.46	110.00 1.15	.31	32.60	.24 29.35	75
76	SEWAGE DISPOSAL: METHO PS, ST, SW, OT ^{16/}				76	YES	YES	YES	YES	YES	76
77	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING				77	OT	ST	ST	ST	OT	77
78	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING				78	R CUMBERLAND	R HOLSTON	R TENNESSEE	R EMORY		78
79	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING				79	9.50	8.40	10.80	4.10	6.80	79
80					80	24.00	50.00	30.00	19.00	270.00	80
81					81						81
82					82	635,000.00	195,000.00	487,000.00	732,000.00	132,000.00	82

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MM) USING: ^{17/} ONCE THROUGH COOLING (FRESH)	83	4	4	10	9		83
84	ONCE THROUGH COOLING (SALINE)	84	1,255.20	823.25	1,485.20	1,700.00		84
85	COOLING PONDS (S)	85						85
86	COOLING TOWERS (S)	86					1	86
87	COMBINATION ^{18/}	87					2	87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1956	1959	1955	1957	1951	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST ^{19/}	89	11.30	15.60	17.00	12.40	13.30	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFD)	90	1,320.00	1,011.60	2,293.00	2,154.50	1,634.80	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFD)	91	1,417.00	1,105.08	2,486.48	2,323.83	1,144.86	91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	2,924.00	3,528.00	5,082.00	5,157.00	2,890.00	92
93	COOLING PONDS (\$1,000)	93						93
94	COOLING TOWERS (\$1,000)	94						94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	28.00	44.00	49.00	40.00	141.00	95
96	COST OF CHEMICAL ADJUSTIVES (\$1,000)	96		13.00		3.00	3.00	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	58.00	66.00	88.00	73.00	8.00	97
98	COST OF CHEMICAL ADJUSTIVES (\$1,000)	98	10.00	4.00	14.00	16.00	38.00	98

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	TENNESSEE VALLEY AUTHORITY	TENNESSEE VALLEY AUTHORITY	TENNESSEE VALLEY AUTHORITY	TENNESSEE VALLEY AUTHORITY	TEXAS ELECTRIC SERVICE CO.	1
2	NAME OF PLANT	2	SHAWNEE	WATTS BAR	WIDOWS CREEK A	WIDOWS CREEK B	EAGLE MOUNTAIN	2
3	UTILITY-PLANT CODE	3	477000-3200	477000-3600	477000-3800	477000-3805	478000-0100	3
4	STATE	4	KENTUCKY	TENNESSEE	ALABAMA	ALABAMA	TEXAS	4
5	COUNTY	5	MCCRACKEN	RHEA	JACKSON	JACKSON	TARRANT	5
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	072	05	007	06	007	6
7	PLANT CAPACITY (MM)	7	1,750.00	240.00	853.00	1,125.01	706.20	7
8	ANNUAL GENERATION (MMH) 2/	8	10,325,200	207,300	3,465,600	5,607,800	1,783,200	8
9	PLANT HEAT RATE (BTU/KWH) 2/	9	3,880	12,370	10,690	9,590	11,390	9
AIR QUALITY CONTROL DATA								
FUEL CONSUMPTION DATA (ANNUAL)								
12	COAL: CONSUMPTION (1,000 TONS)	12	4,826.50	72.30	1,556.70	2,321.20		12
13	AVERAGE HEAT CONTENT (BTU/LB)	13	10,490	10,937	11,134	11,052		13
14	AVERAGE SULFUR CONTENT (%)	14	2.81	2.81	2.40	3.21		14
15	AVERAGE ASH CONTENT (%)	15	15.56	18.68	17.94	17.08		15
16	AVERAGE MOISTURE CONTENT (%)	16	10.94	6.53	6.54	7.07		16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	17.06	6.4	22.13	17.82	14.90	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	136,138	138,175	137,415	136,707	142,000	18
19	AVERAGE SULFUR CONTENT (%)	19	0.19	0.10	0.11	0.14	0.48	19
20	GAS: CONSUMPTION (1,000 MCF)	20					19,631.90	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21					1,038	21
PLANT EQUIPMENT DATA								
22	BOILERS: - TOTAL NO.	22	10	4	6	2	3	22
23	- NO. OF WET BOTTOM	23						23
24	- NO. WITH FLY ASH REINJECTION	24						24
25	- NO. WITH MECHANICAL PRECIPITATORS	25						25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26	4		6			26
27	- NO. WITH COMBINATION PRECIPITATORS 2/	27		4		2		27
28	- NO. WITH DESULFURIZATION SYSTEMS	28	10					28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 2/	29	20.00	20.00	20.00	20.00	7.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30	85.00		85.00	20.00	10.00	30
31	TESTED, LOW - HIGH	31			70.00			31
32	ESTIMATED, LOW - HIGH	32			60.00			32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 2/ DESIGN, LOW - HIGH	33	98.50	95.00		90.00		33
34	TESTED, LOW - HIGH	34	94.00	95.00		99.00		34
35	EST., LOW - HIGH	35	88.20	94.30	95.00	50.00	95.00	35
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36				50.00		36
37	TESTED, LOW - HIGH	37						37
38	ESTIMATED, LOW - HIGH	38						38
PLANT OPERATING DATA AND COST OF EQUIPMENT								
39	EST. TOTAL ANNUAL PLANT EMISSIONS 2/ PARTICULATE MATTER (1,000 TONS)	39	55.96	4.44	72.61	99.85		39
40	SULFUR DIOXIDE (1,000 TONS)	40	265.82	3.98	73.22	146.04	0.02	40
41	NITROGEN DIOXIDES (1,000 TONS)	41	36.20	0.54	11.67	20.89	3.86	41
42	STACKS: - TOTAL NO.	42	10	2	6	2	2	42
43	- HEIGHT (FEET), LOWEST - HIGHEST 2/	43	250.00	147.00	270.00	500.00	213.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 2/	44	8.00					44
45	TOTAL ASH: COLLECTED (1,000 TONS) 2/	45	726.90	13.20	190.10	302.00		45
46	SOLO (1,000 TONS) 2/	46						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 2/	48						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	49						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50	377.20		553.20			50
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51		1,666.00		1,737.00		51
52	COMBINATION PRECIPITATORS (\$1,000) 2/	52						52
53	DESULFURIZATION SYSTEMS (\$1,000)	53	8,050.60					53
54	STACKS (\$1,000)	54	1,830.00	30.00	192.00	684.00	66.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	351.00	23.00	227.00	391.00		55
56	REVENUES FROM SALE OF ASH (\$1,000)	56						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						58
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 2/	59	351.00	23.00	227.00	391.00		59
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60						60
WATER QUALITY CONTROL DATA								
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R OHIO	R TENNESSEE	R TENNESSEE	R TENNESSEE	L EAGLE MOUNTAIN	61
62	AVERAGE RATE OF WITHDRAWAL (ICFS)	62	2,290.00	58.00	994.00	869.00	483.10	62
63	AVERAGE RATE OF DISCHARGE (ICFS)	63	2,263.00	57.00	986.00	853.00	481.30	63
64	AVERAGE RATE OF CONSUMPTION (ICFS), CALCULATED - REPORTED 2/	64	19.69	27.00	8.55	8.00	7.47	64
65	PEAK LOAD MONTH: SUMMER - WINTER	65	JUN	APR	JUN	APR	JUL	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	76.00	55.00	74.00	60.00	77.00	66
67	AT OUTFALL, SUMMER - WINTER	67	88.00	67.00	86.00	72.00	89.00	67
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (ICFS): SUMMER - WINTER	68	154,000.00	27,000.00	32,000.00	32,000.00	103.00	68
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D 2/	69	185,000.00		22,000.00	22,000.00		69
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70						70
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71	1.72	0.18	1.10	0.68	2.25	71
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	72			19.75	11.70	0.01	72
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	73			10.75	6.50	31.86	73
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74	69.50	4.45				74
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75	YES	YES	YES	YES	YES	75
76	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 2/	76	ST	ST	O ASH POND	O ASH POND	OT	76
77	RECEIVING WATER BODY	77	R OHIO	R TENNESSEE	O ASH POND	O ASH POND	L EAGLE MOUNTAIN	77
78	POND DISCHARGE: PPM, BOILER BLOWDOWN - ASH SETTLING	78						78
79	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79	11.40	9.50	10.40			79
80	VOLUME (1,000 CU.FT./YR.), BOILER BLOWDOWN	80	75.00	24.00	24.00			80
81		81						81
82		82	930,000.00	1,600.00	976,000.00			82
COOLING FACILITY DATA								
83	NO. OF UNITS AND CAPACITY (TYP. USING): ONCE THROUGH COOLING (FRESH)	83	10	4	6	2		83
84	ONCE THROUGH COOLING (SALINE)	84	1,750.00	240.00	853.00	1,125.01		84
85	COOLING POND(S)	85						85
86	COOLING TOWER(S)	86					3	86
87	COMBINATION(S) 2/	87					706.20	87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1953	1956	1952	1954	1960	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 2/	89	12.30	6.90	11.60	12.20	16.30	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (ICFS)	90	2,397.00	625.60	1,371.00	1,062.80	21.10	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (ICFS)	91	2,635.60		1,422.94	1,149.77	648.20	91
CAPITAL COSTS OF COOLING FACILITIES								
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	9,730.00	652.00	2,706.00	2,629.00		92
93	COOLING PONDS (\$1,000)	93						93
94	COOLING TOWERS (\$1,000)	94						94
ANNUAL COOLING WATER EXPENSES								
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	139.00	9.00	37.00	19.00		95
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	8.00				1.20	96
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES								
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	11.00	2.00	37.00	68.00		97
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	12.00	2.60	12.00	7.00	3.50	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	TEXAS ELECTRIC SERVICE CO.	TEXAS ELECTRIC SERVICE CO.	TEXAS ELECTRIC SERVICE CO.	TEXAS ELECTRIC SERVICE CO.	TEXAS ELECTRIC SERVICE CO.	1
2	NAME OF PLANT	2	GRAHAM	HANDLEY	MORGAN CREEK	NORTH MAIN	PERMIAN BASIN	2
3	UTILITY-PLANT CODE	3	478000-0200	478000-0300	478000-0400	478000-0500	478000-0600	3
4	STATE	4	TEXAS	TEXAS	TEXAS	TEXAS	TEXAS	4
5	COUNTY	5	YOUNG	TARRANT	MITCHELL	TARRANT	WAGO	5
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	210 12	215 12	210 12	215 12	210 13	6
7	PLANT CAPACITY (MW)	7	635.00	523.35	845.76	116.25	164.95	7
8	ANNUAL GENERATION (MMH) 3/	8	2,845,900	2,437,900	4,769,800	253,500	994,700	8
9	PLANT HEAT RATE (BTU/KWH) 3/	9	9,930	10,040	10,180	13,250	11,770	9
10	AIR QUALITY CONTROL DATA							
11	FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)	12						12
13	AVERAGE HEAT CONTENT (BTU/LB)	13						13
14	AVERAGE SULFUR CONTENT (%)	14						14
15	AVERAGE ASH CONTENT (%)	15						15
16	AVERAGE MOISTURE CONTENT (%)	16						16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	21.40	1.50	4.70	1.80	2.95	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	142,857	148,000	142,857	142,860	142,857	18
19	AVERAGE SULFUR CONTENT (%)	19	.70	.60	.80	.90	4.14	19
20	GAS: CONSUMPTION (1,000 MCF)	20	27,412.00	23,661.30	47,099.60	3,263.40	10,848.40	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,027	1,028	1,030	1,026	1,078	21
22	PLANT EQUIPMENT DATA							
23	BOILERS: - TOTAL NO.	23	2	4	6	8	5	23
24	- NO. OF WET BOTTOM	24						24
25	- NO. WITH FLY ASH REINJECTION	25						25
26	- NO. WITH MECHANICAL PRECIPITATORS	26						26
27	- NO. WITH ELECTROSTATIC PRECIPITATORS	27						27
28	- NO. WITH COMBINATION PRECIPITATORS 4/	28						28
29	- NO. WITH DESULFURIZATION SYSTEMS	29						29
30	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	30	6.50 8.00	8.00 14.50	8.00 20.00	10.00	8.00 12.00	30
31	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, TESTED, ESTIMATED, LOW - HIGH	31						31
32	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/	32						32
33	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, TESTED, ESTIMATED, LOW - HIGH	33						33
34	PLANT OPERATING DATA AND COST OF EQUIPMENT							
35	EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	35	.05	.01	.01	.04		35
36	SULFUR DIOXIDE (1,000 TONS)	36	5.39	4.62	9.19	2.12		36
37	NITROGEN OXIDES (1,000 TONS)	37	3	4	6	4		37
38	STACKS: - TOTAL NO.	38	163.00	177.00	150.00	184.00	150.00	38
39	- HEIGHT (FEET), LOWEST - HIGHEST 7/	39						39
40	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 8/	40						40
41	TOTAL ASH: COLLECTED (1,000 TONS) 9/	41						41
42	SOLD (1,000 TONS) 10/	42						42
43	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	43						43
44	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 11/	44						44
45	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	45						45
46	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	46						46
47	ELECTROSTATIC PRECIPITATORS (\$1,000) 12/	47						47
48	COMBINATION PRECIPITATORS (\$1,000) 13/	48						48
49	DESULFURIZATION SYSTEMS (\$1,000)	49						49
50	STACKS (\$1,000)	50						50
51	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	51						51
52	REVENUES FROM SALE OF ASH (\$1,000)	52						52
53	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	53						53
54	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	54						54
55	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 14/	55						55
56	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	56						56
57	WATER QUALITY CONTROL DATA							
58	COOLING WATER: SOURCE (CODES R, L, B, C, D, M, A, E, S, P, T, H, F, G, J, K, N, O, Q, U, V, W, X, Y, Z)	58	L EDDLEMAN	L ARLINGTON	L COLORADO CITY	R TRINITY	M	61
59	AVERAGE RATE OF WITHDRAWAL (CFS)	59		61.9 10		1.06	3.95	62
60	AVERAGE RATE OF DISCHARGE (CFS)	60		61.5 60		.36	.32	63
61	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 15/	61		3.50		.70	3.63	64
62	PEAK LOAD MONTH: JUL DEC	62						65
63	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	63		94.40			60.00	66
64	AT OUTFALL, SUMMER - WINTER	64		112.20			90.00	67
65	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	65				95.00	84.00	68
66	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O, S/	66						69
67	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	67						70
68	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	68						71
69	LIME (TONS), COOLING WATER - BOILER MAKEUP	69						72
70	ALUM (TONS), COOLING WATER - BOILER MAKEUP	70						73
71	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	71						74
72	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	72						75
73	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 16/	73	PS	PS	ST	PS	ST	76
74	RECEIVING WATER BODY	74						77
75	POND DISCHARGE 17/	75						78
76	BOILER BLOWDOWN - ASH SETTLING	76						79
77	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	77						80
78	VOLUME (1,000 CU.FT./YR), BOILER BLOWDOWN	78						81
79	- ASH SETTLING	79						82
80	COOLING FACILITY DATA							
81	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	81						83
82	ONCE THROUGH COOLING (SALINE)	82						84
83	COOLING POND(S)	83	2	3	6	2	5	85
84	COOLING TOWER(S)	84				1		86
85	COMBINATIONS 18/	85						87
86	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	86						88
87	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 19/	87	1960	1969	1957	1962	1918	1952
88	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	88	14.00	20.00	16.00	17.00	13.00	19.00
89	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	89		753.00			211.70	
90	CAPITAL COSTS OF COOLING FACILITIES							
91	ONCE THROUGH COOLING SYSTEMS (\$1,000)	91						92
92	COOLING PONDS (\$1,000)	92						93
93	COOLING TOWERS (\$1,000)	93						94
94	ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95						95
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96						96
97	ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
98	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	98						97
99	COST OF CHEMICAL ADDITIVES (\$1,000)	99						98

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	TEXAS ELECTRIC SERVICE CO.	TEXAS POWER AND LIGHT CO.	TEXAS POWER & LIGHT CO.	TEXAS POWER & LIGHT CO.	TEXAS POWER & LIGHT CO.
2	NAME OF PLANT	2	WICHITA FALLS	816 BROWN	COLLIN	LAKE CREEK	RIVER CREST
3	UTILITY-PLANT CODE	3	478000-0700	478500-0250	478500-0300	478500-0500	478500-0600
4	STATE	4	TEXAS	TEXAS	TEXAS	TEXAS	TEXAS
5	COUNTY	5	WICHITA	FREESTONE	COLLIN	MCKENNA	REO RIVER
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	210	11	212	19	215
7	PLANT CAPACITY (MW) 3/	7	25.00	593.40	156.25	315.63	112.50
8	ANNUAL GENERATION (MMWH) 3/	8	1,900	13,945	805,500	1,701,800	193,900
9	PLANT HEAT RATE (BTU/KWH) 3/	9	18,620	11,091	10,401	10,729	11,771
10	PLANT HEAT RATE (BTU/KWH) 3/	10	18,620	11,091	10,401	10,729	11,771
11	PLANT HEAT RATE (BTU/KWH) 3/	11	18,620	11,091	10,401	10,729	11,771
AIR QUALITY CONTROL DATA							
FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)	12		9.30			
13	AVERAGE HEAT CONTENT (BTU/LB)	13		7,000			
14	AVERAGE SULFUR CONTENT (%)	14		.60			
15	AVERAGE ASH CONTENT (%)	15		10.40			
16	AVERAGE MOISTURE CONTENT (%)	16		30.80			
17	OIL: CONSUMPTION (1,000 BARRELS)	17			13.38	.62	15.54
18	AVERAGE HEAT CONTENT (BTU/GAL)	18			147,831	150,046	146,150
19	AVERAGE SULFUR CONTENT (%)	19			1.60	1.00	.90
20	GAS: CONSUMPTION (1,000 MCF)	20	35.20	23.70	8,460.04	17,794.00	2,095.24
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,041	1,058	981	1,026	1,177
PLANT EQUIPMENT DATA							
22	BOILERS: - TOTAL NO.	22	2	1	1	2	1
23	- NO. OF WET BOTTOM	23					
24	- NO. WITH FLY ASH REINJECTION	24					
25	- NO. WITH MECHANICAL PRECIPITATORS	25					
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26		1			
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27					
28	- NO. WITH DESULFURIZATION SYSTEMS	28					
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	12.00	20.00	8.00	8.00	8.00
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30					
31	TESTED, LOW - HIGH	31					
32	ESTIMATED, LOW - HIGH	32					
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/ DESIGN, LOW - HIGH	33		97.30			
34	TESTED, LOW - HIGH	34					
35	EST., LOW - HIGH	35		97.30			
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36					
37	TESTED, LOW - HIGH	37					
38	ESTIMATED, LOW - HIGH	38					
PLANT OPERATING DATA AND COST OF EQUIPMENT							
39	EST. TOTAL ANNUAL PLANT EMISSIONS 7/	39		.02			
40	PARTICULATE MATTER (1,000 TONS)	40		.11			
41	SULFUR DIOXIDE (1,000 TONS)	41		.09	.07		
42	NITROGEN OXIDES (1,000 TONS)	42	.01		1.68	3.47	.44
43	STACKS: - TOTAL NO.	43	1	1	2	3	2
44	- HEIGHT (FEET), LOWEST - HIGHEST 8/	44	150.00	400.00	196.00	150.00	181.00
45	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	45					
46	TOTAL ASH: COLLECTED (1,000 TONS) 10/	46					
47	SOLO (1,000 TONS) 11/	47					
48	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	48					
49	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	49					
50	ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	50					
51	MECHANICAL PRECIPITATORS (\$1,000)	51		1,726.00			
52	ELECTROSTATIC PRECIPITATORS (\$1,000)	52					
53	DESULFURIZATION SYSTEMS (\$1,000)	53					
54	STACKS (\$1,000)	54					
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	17.00	589.00	36.16	77.23	20.16
56	REVENUES FROM SALE OF ASH (\$1,000)	56					
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57					
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58					
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	59					
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60					
WATER QUALITY CONTROL DATA							
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	L WICHITA	C 816 BROWN	W	R BRAZOS	R SULPHUR
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62			3.83	5.50	.04
63	AVERAGE RATE OF DISCHARGE (CFS)	63			.14	2.00	
64	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	64			3.69	3.50	.04
65	PEAK LOAD MONTH: SUMMER - WINTER 15/	65	JUL OEC	JUL OEC	JUL OEC	JUL OEC	JUL OEC
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	84.00				
67	AT OUTFALL, SUMMER - WINTER	67	96.00				
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	68				2,203.00	
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, D, O 16/	69				1,292.00	
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70					
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71	.05	.01	1.10	1.63	.60
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	72			.21	109.00	.39
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	73					
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74					
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75	YES	YES	13.00	11.50	YES
76	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 17/	76	PS	ST	ST	ST	ST
77	RECEIVING WATER BODY	77					
78	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	78					
79	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79		11.00			
80	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	80					
81		81					
82		82					
COOLING FACILITY DATA							
83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	83					
84	ONCE THROUGH COOLING (SALINE)	84					
85	COOLING TOWER(S)	85	2	1	1	2	1
86	COMBINATIONS 21/	86	25.00	593.40	156.25	315.63	112.50
87	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	87					
88	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	88	1948	1949	1955	1953	1959
89	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	89	16.00	15.40	15.00	16.00	26.00
90	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	90	59.60	757.00	186.00	556.00	307.00
91		91					
CAPITAL COSTS OF COOLING FACILITIES							
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92					
93	COOLING PONDS (\$1,000)	93		5,461.00		1,008.92	781.35
94	COOLING TOWERS (\$1,000)	94	98.00		794.14		
ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95			54.31		8.00
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96			19.99	2.16	
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97			32.31		15.50
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98			2.72	13.72	4.30

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	TEXAS POWER & LIGHT CO.	TEXAS POWER & LIGHT CO.	TEXAS POWER & LIGHT CO.	TEXAS POWER & LIGHT CO.	THE CANAL ELECTRIC CO.	1
2	NAME OF PLANT	2	STRYKER	TRADINGHOUSE	TRINIDAD	VALLEY	CANAL	2
3	UTILITY-PLANT CODE	3	478500-0700	478500-0850	478500-0900	478500-1000	479000-0100	3
4	STATE	4	TEXAS	TEXAS	TEXAS	TEXAS	MASSACHUSETTS	4
5	COUNTY	5	CHEROKEE	MCLENNAN	HENDERSON	FANNIN	BARNSTABLE	5
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	022 12	212 12	022 12	215 11	120 01	6
7	PLANT CAPACITY (MM)	7	703.48	580.50	412.11	1,175.50	542.50	7
8	ANNUAL GENERATION (MMH) 3/	8	3,382,500	3,151,800	2,037,800	3,040,300	3,543,900	8
9	PLANT HEAT RATE (BTU/KWH) 4/	9	10,066	9,643	10,295	10,291	9,029	9
AIR QUALITY CONTROL DATA								
FUEL CONSUMPTION DATA (ANNUAL)								
12	COAL: CONSUMPTION (1,000 TONS)	12						12
13	AVERAGE HEAT CONTENT (BTU/LB)	13						13
14	AVERAGE SULFUR CONTENT (%)	14						14
15	AVERAGE ASH CONTENT (%)	15						15
16	AVERAGE MOISTURE CONTENT (%)	16						16
17	DIL: CONSUMPTION (1,000 BARRELS)	17						17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	152,000	144,000	154,347	154,347	146,960	18
19	AVERAGE SULFUR CONTENT (%)	19						19
20	GAS: CONSUMPTION (1,000 MCF)	20	32,885.40	29,872.00	20,140.58	31,049.61		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,035	1,016	1,069	1,005		21
PLANT EQUIPMENT DATA								
22	BOILERS: - TOTAL NO.	22	2	1	9	3	1	22
23	- NO. OF WET BOTTOM	23						23
24	- NO. WITH FLY ASH REINJECTION	24						24
25	- NO. WITH MECHANICAL PRECIPITATORS	25						25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26						26
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27						27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29						29
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30	8.00	8.00	10.00	18.00	8.00	30
31	TESTED, LOW - HIGH	31						31
32	ESTIMATED, LOW - HIGH	32						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/	33						33
34	DESIGN, LOW - HIGH	34						34
35	TESTED, LOW - HIGH	35						35
36	ESTIMATED, LOW - HIGH	36						36
37	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	37						37
38	TESTED, LOW - HIGH	38						38
39	ESTIMATED, LOW - HIGH	39						39
PLANT OPERATING DATA AND COST OF EQUIPMENT								
39	EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	39						39
40	SULFUR DIOXIDE (1,000 TONS)	40						40
41	NITROGEN OXIDES (1,000 TONS)	41						41
42	STACKS: - TOTAL NO.	42						42
43	- HEIGHT (FEET), LOWEST - HIGHEST 7/	43						43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 8/	44	161.00	197.00	170.00	141.75	390.00	44
45	TOTAL ASH: COLLECTED (1,000 TONS) 9/	45						45
46	SOLD (1,000 TONS) 10/	46						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 11/	48						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50						50
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51						51
52	COMBINATION PRECIPITATORS (\$1,000) 4/	52						52
53	DESULFURIZATION SYSTEMS (\$1,000)	53						53
54	STACKS (\$1,000)	54	96.74	94.69	282.22	142.12	184.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55						55
56	REVENUES FROM SALE OF ASH (\$1,000)	56						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						58
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 12/	59						59
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60						60
WATER QUALITY CONTROL DATA								
61	COOLING WATER: SOURCE (CODES R, L, M, E, C, P, N, S, EXPL. IN FOOTNOTES)	61	L STRYKER	R BRAZOS	R TRINITY	R REO	O CAPE COD CANAL	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	800.00	11.00	3.58	.82	370.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	800.00	11.93			370.00	63
64	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 13/	64	6.88	4.80			3.18	64
65	PEAK LOAD MONTH: JUL	65	JUL	DEC	JUL	DEC	JUL	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER 14/	66	92.00	99.00			76.00	66
67	AT OUTFALL, SUMMER - WINTER	67	107.00	72.00			101.00	67
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68	800.00				1,650,000.00	68
69	- WINTER	69	800.00				1,650,000.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, 015/	70						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71						71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72						72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73						73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74						74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75						75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76	YES	YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD (PS, ST, SW, OT) 16/	77	ST	ST	ST	ST	ST	77
78	RECEIVING WATER BODY	78						78
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	79						79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80						80
81	VOLUME (1,000 CU.FT./YR), BOILER BLOWDOWN	81						81
82	- ASH SETTLING	82						82
COOLING FACILITY DATA								
83	NO. OF UNITS AND CAPACITY (MM) USING: ONCE THROUGH COOLING (FRESH)	83	2	703.48				83
84	ONCE THROUGH COOLING (SALINE)	84						84
85	COOLING POND(S)	85						85
86	COOLING TOWER(S)	86						86
87	COMBINATIONS 21/	87						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1958	1965	1969	1926	1965	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	89	14.00	16.00	19.00	12.00	14.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90			580.00			90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91				1,077.14	1,295.00	91
CAPITAL COSTS OF COOLING FACILITIES								
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92						92
93	COOLING PONDS (\$1,000)	93						93
94	COOLING TOWERS (\$1,000)	94						94
ANNUAL COOLING WATER EXPENSES								
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	47.40	50.00	26.75	.60	53.00	95
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96		1.82	2.30			96
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES								
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	9.00	5.00	20.75	7.50	8.00	97
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	10.24	10.30	7.38	19.45	1.008	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	THE CINCINNATI	THE CINCINNATI	THE CINCINNATI	THE CONNECTICUT	THE CONNECTICUT
2		2	GAS & ELECTRIC	GAS & ELECTRIC	GAS & ELECTRIC	LIGHT & POWER CO.	LIGHT & POWER CO.
3		3	CO.	CO.	CO.		
4	NAME OF PLANT	4	MIAMI FORT	BECKJORD	WEST END	DEVON	MONTVILLE
5	UTILITY-PLANT CODE	5	480500-0200	480500-0300	480500-0400	481000-0300	481000-0500
6	STATE	6	OHIO	OHIO	OHIO	CONNECTICUT	CONNECTICUT
7	COUNTY	7	HAMILTON	CLERMONT	HAMILTON	NEW HAVEN	NEW LONDON
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	8	079 05	079 05	079 05	042 01	041 01
9	PLANT CAPACITY (MW)	9	393.20	1,221.30	219.25	454.00	549.00
10	ANNUAL GENERATION (MWH) 3/	10	1,861,100	6,833,800	508,600	2,055,600	1,897,400
11	PLANT HEAT RATE (BTU/KWH) 4/	11	10,753	9,745	15,116	11,707	12,349
AIR QUALITY CONTROL DATA							
FUEL CONSUMPTION DATA (ANNUAL)							
12	COAL: CONSUMPTION (1,000 TONS)	12	885.70	3,098.70		463.60	146.60
13	AVERAGE HEAT CONTENT (BTU/LB)	13	11,272	10,687		11,381	12,126
14	AVERAGE SULFUR CONTENT (%)	14	3.65	2.91		2.87	2.00
15	AVERAGE ASH CONTENT (%)	15	13.90	17.68		16.86	14.45
16	AVERAGE MOISTURE CONTENT (%)	16	9.45	8.83		8.10	7.39
17	OIL: CONSUMPTION (1,000 BARRELS)	17	7.80	63.10		2,112.30	3,131.62
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	138,000	138,000		147,622	147,646
19	AVERAGE SULFUR CONTENT (%)	19	.40	.40		1.55	1.69
20	GAS: CONSUMPTION (1,000 MCF)	20			7,606.30		
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21			1,011		
PLANT EQUIPMENT DATA							
22	BOILERS: - TOTAL NO.	22	14	6	6	12	8
23	- NO. OF WET BOTTOM	23	4				
24	- NO. WITH FLY ASH REINJECTION	24					
25	- NO. WITH MECHANICAL PRECIPITATORS	25					
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26		5		4	2
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27	1	1		4	3
28	- NO. WITH DESULFURIZATION SYSTEMS	28					
29	EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	20.00	21.00	20.00	25.00	15.00
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30					2.00
31	TESTED, LOW - HIGH	31					23.00
32	ESTIMATED, LOW - HIGH	32					50.00
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/ DESIGN, LOW - HIGH	33	96.00	95.00	98.00	86.00	91.00
34	TESTED, LOW - HIGH	34				95.60	97.00
35	EST., LOW - HIGH	35	94.00	92.00	97.00	64.00	99.40
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36					
37	TESTED, LOW - HIGH	37					
38	ESTIMATED, LOW - HIGH	38					
PLANT OPERATING DATA AND COST OF EQUIPMENT							
39	EST. TOTAL ANNUAL PLANT EMISSIONS 7/ PARTICULATE MATTER (1,000 TONS)	39	45.26	24.20		1.91	.68
40	SULFUR DIOXIDE (11,000 TONS)	40	63.37	176.82		37.06	23.50
41	NITROGEN DIOXIDES (11,000 TONS)	41	9.19	28.03	1.48	8.83	8.22
42	STACKS: - TOTAL NO.	42		5	3	7	6
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	43	194.00	375.00	206.00	220.00	357.50
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	44					171.00
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	45	76.00	480.00			390.00
46	SOLO (1,000 TONS) 11/	46					126.50
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47					41.90
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	48					
49	ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	49					
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50					
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51		2,420.00		2,195.00	539.00
52	COMBINATION PRECIPITATORS (\$1,000) 14/	52	535.00	627.00		278.00	
53	DESULFURIZATION SYSTEMS (\$1,000)	53					
54	STACKS (\$1,000)	54	420.00	2,353.00	78.00	263.00	931.00
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	17.00	45.00		174.70	38.40
56	REVENUES FROM SALE OF ASH (\$1,000)	56				11.50	
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57					
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58					
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 15/	59	17.00	320.00		213.10	184.10
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60				11.50	
WATER QUALITY CONTROL DATA							
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R OHIO	R OHIO	R OHIO	R HOUSATONIC	R THAMES
62	AVERAGE RATE OF WITHDRAWAL (ICFS)	62	470.00	935.00	400.00	625.50	608.00
63	AVERAGE RATE OF DISCHARGE (ICFS)	63	470.00	935.00	400.00	625.50	608.00
64	AVE. RATE OF CONSUMPTION (ICFS), CALCULATED - REPORTED 16/	64	4.04	8.04	3.44	5.38	5.23
65	PEAK LOAD MONTH: SUMMER - WINTER 17/	65	JUL	JUL	JUL	AUG	JUL
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	84.00	83.00	83.00	74.00	72.00
67	AT OUTFALL, SUMMER - WINTER	67	96.00	101.00	91.00	86.00	94.00
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (ICFS): SUMMER	68	39,000.00	39,000.00	39,000.00	39,000.00	39,000.00
69	- WINTER	69	120,000.00	120,000.00	120,000.00	120,000.00	120,000.00
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D 18/	70					
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71		.65			.25
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72		184.35	450.00	.40	.14
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73	17.15			2.60	
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74				9.80	
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	83.00	49.00		42.00	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76	YES	YES	YES	YES	YES
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, DT 19/	77	ST	ST	PS	ST	ST
78	POND DISCHARGE 20/	78	R OHIO	R OHIO	PS	ST	ST
79	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79	10.00	10.70	10.30	7.00	
80	VOLUME (1,000 CU.FT./YR), BOILER BLOWDOWN - ASH SETTLING	80		450.00			
81		81	6,480.00	2,427.00	4,093.50		
82		82	360,000.00	72,317.30		25,000.00	
COOLING FACILITY DATA							
83	NO. OF UNITS AND CAPACITY (MW) USING 21/ ONCE THROUGH COOLING (FRESH)	83	6	6	6	7	6
84	ONCE THROUGH COOLING (SALINE)	84	519.20	1,221.30	328.65	454.00	559.00
85	COOLING PONDS (S)	85					
86	COOLING TOWERS (S)	86					
87	COMBINATIONS 22/	87					
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1925	1960	1952	1924	1923
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 23/	89	10.00	19.00	17.00	1958	1971
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (ICFS)	90		918.00	1,146.00	11.70	25.00
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (ICFS)	91		918.00	1,146.00	887.70	370.00
CAPITAL COSTS OF COOLING FACILITIES							
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92		402.00	1,116.00	336.00	1,345.00
93	COOLING PONDS (\$1,000)	93					
94	COOLING TOWERS (\$1,000)	94					
ANNUAL COOLING WATER EXPENSES							
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95		78.00	90.00	48.00	7.50
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96		12.00	9.00	4.30	14.70
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES							
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97		60.00	51.00	86.00	46.90
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98		23.00	49.00	4.00	17.20

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA. 1971

1	NAME OF UTILITY	1	THE CONNECTICUT	THE DAYTON POWER	THE DAYTON POWER	THE DAYTON POWER	THE DETROIT	1
2		2	LIGHT & POWER CO.	& LIGHT CO.	& LIGHT CO.	& LIGHT CO.	EDISON CO.	2
3		3						3
4	NAME OF PLANT	4	NORWALK HARBOR	TAIT	HUTCHINGS	STUART	CONNERS CREEK	4
5	UTILITY-PLANT CODE	5	481000-0600	481500-0200	481500-0300	481500-0400	482000-0200	5
6	STATE	6	CONNECTICUT	OHIO	OHIO	OHIO	MICHIGAN	6
7	COUNTY	7	FAIRFIELD	MONTGOMERY	MONTGOMERY	ADAMS	WAYNE	7
8	AIR QUALITY CONTROL REGION NO. 1 - WATER RESOURCE REGION NO. 2	8	043	01	173	05	081	05
9	PLANT CAPACITY (MW)	9	326.40	444.10	414.00	1,220.40	585.00	9
10	ANNUAL GENERATION (MWH) 2	10	1,672,400	1,849,300	1,963,200	5,384,700	2,741,400	10
11	PLANT HEAT RATE (BTU/KWH) 2	11	10,060	10,790	10,361	9,176	13,230	11
AIR QUALITY CONTROL DATA								
FUEL CONSUMPTION DATA (ANNUAL)								
12	COAL: CONSUMPTION (1,000 TONS)	12	672.00	857.40	823.50	2,230.50	950.00	12
13	AVERAGE HEAT CONTENT (BTU/LB)	13	11,573	11,915	12,360	11,206	11,583	13
14	AVERAGE SULFUR CONTENT (%)	14	2.34	1.46	.94	1.54	2.38	14
15	AVERAGE ASH CONTENT (%)	15	17.80	11.89	9.77	15.40	13.46	15
16	AVERAGE MOISTURE CONTENT (%)	16	6.92	6.94	5.89	7.54	7.12	16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	214.80			40.50	371.33	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	144,025			140,000	137,183	18
19	AVERAGE SULFUR CONTENT (%)	19	.87			.10	.30	19
20	GAS: CONSUMPTION (1,000 MCF)	20		62.90	138.40		11,910.00	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21		1,045	1,045		1,018	21
PLANT EQUIPMENT DATA								
22	BOILERS: - TOTAL NO.	22	2	6	6	2	15	22
23	- NO. OF WET BOTTOM	23						23
24	- NO. WITH FLY ASH REINJECTION	24						24
25	- NO. WITH MECHANICAL PRECIPITATORS	25			6		11	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26				2		26
27	- NO. WITH COMBINATION PRECIPITATORS	27	2	6			4	27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER	29	22.00	20.00	25.00	18.00	24.50	29
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30			86.50	90.10	80.00	30
31	TESTED, LOW - HIGH	31			30.40	86.10	80.00	31
32	ESTIMATED, LOW - HIGH	32			29.80	85.80	80.00	32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	33				98.00	98.00	33
34	TESTED, LOW - HIGH	34	98.70	99.40	78.90	91.30	98.90	34
35	EST., LOW - HIGH	35		98.00	85.50	95.20	99.00	35
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36						36
37	TESTED, LOW - HIGH	37						37
38	ESTIMATED, LOW - HIGH	38						38
PLANT OPERATING DATA AND COST OF EQUIPMENT								
39	EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	39	2.03	5.88	21.73	31.30	6.39	39
40	SULFUR DIOXIDE (1,000 TONS)	40	31.45	24.54	15.17	67.34	44.69	40
41	NITROGEN OXIDES (1,000 TONS)	41	6.52	7.73	7.44	20.16	11.46	41
42	STACKS: - TOTAL NO.	42	1	4	3	2	8	42
43	- HEIGHT (FEET), LOWEST - HIGHEST	43						43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)	44	350.00	307.00	250.00	800.00	252.00	44
45	TOTAL ASH: COLLECTED (1,000 TONS)	45	117.50	100.60	60.50	307.80	115.70	45
46	SOLD (1,000 TONS)	46	5.10				40.60	46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)	48						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50			372.00		1,000.00	50
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51				2,746.00		51
52	COMBINATION PRECIPITATORS (\$1,000)	52	1,546.00	1,334.00			2,262.00	52
53	DESULFURIZATION SYSTEMS (\$1,000)	53						53
54	STACKS (\$1,000)	54	276.00	138.00	288.00	4,021.00	443.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	29.80	298.00	183.00	285.00	180.00	55
56	REVENUES FROM SALE OF ASH (\$1,000)	56						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						58
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000)	59	65.80	298.00	189.00	285.00	736.00	59
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60	.90				72.00	60
WATER QUALITY CONTROL DATA								
61	COOLING WATER: SOURCE (CONES A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, EXPL. IN FOOTNOTES)	61	LONG IS SOUND	GREAT MIAMI	GREAT MIAMI	OHIO	DETROIT	61
62	AVERAGE RATE OF WITHDRAWAL (ICFS)	62	470.00	318.30	351.40	1,016.00	800.00	62
63	AVERAGE RATE OF DISCHARGE (ICFS)	63	470.00	317.50	351.00	1,015.00	800.00	63
64	AVERAGE RATE OF CONSUMPTION (ICFS), CALCULATED - REPORTED	64	4.04	2.74	3.02	8.74	6.88	64
65	PEAK LOAD MONTH: SUMMER - WINTER	65	JUL	JUN	JUN	JUN	JUN	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	72.00	45.00	81.00	50.00	77.20	66
67	AT OUTFALL, SUMMER - WINTER	67	86.00	72.00	94.00	72.00	111.00	67
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (ICFS): SUMMER - WINTER	68		1,583.00	1,716.00	57,000.00	213,000.00	68
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OI	69		6,004.00	3,575.00	213,000.00	209,000.00	69
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS)	70		.45	.10	.13	3.90	70
71	CAUSTIC SODA (TONS)	71		7.20	.08	.01	27.00	71
72	LIME (TONS)	72			51.25	33.55		72
73	ALUM (TONS)	73						73
74	CHLORINE (TONS)	74						74
75	OTHER (YES/NO)	75	51.40	59.00	144.00	13.00	34.00	75
76	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT	76	ST	PS	SW	OT	PS	76
77	RECEIVING WATER BODY	77			GREAT MIAMI	OHIO		77
78	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	78		7.30	8.00	6.90	8.00	78
79	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79			10.00	10.00	200.00	79
80	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	80					1,480.00	80
81		81						81
82		82	120,000.00	4,600.00	22,100.00	385,000.00	50,000.00	82
COOLING FACILITY DATA								
83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	83	2	7	6	2	9	83
84	ONCE THROUGH COOLING (SALINE)	84	326.40	444.10	414.00	1,220.40	585.00	84
85	COOLING PONDS	85						85
86	COOLING TOWERS	86						86
87	COMBINATIONS	87						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1960	1963	1942	1959	1948	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST	89			12.00	15.00	13.40	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (ICFS)	90		440.00		595.60	579.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (ICFS)	91				595.60	579.00	91
CAPITAL COSTS OF COOLING FACILITIES								
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	1,979.00	1,198.00	983.00	9,967.00	1,434.00	92
93	COOLING PONDS (\$1,000)	93						93
94	COOLING TOWERS (\$1,000)	94						94
ANNUAL COOLING WATER EXPENSES								
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	79.80	60.00	93.00	273.00	188.00	95
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	10.80	7.00	17.00	1.00	4.00	96
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES								
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	22.70	6.00	11.00	50.00	714.00	97
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	4.70	3.00	1.00	113.00	1,000.00	98

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10. INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	2	THE DETROIT EISON CO.	3	THE DETROIT EISON CO.	4	THE DETROIT EISON CO.	5	THE DETROIT EISON CO.	6	THE DETROIT EISON CO.
2	NAME OF PLANT	3	OELRAY	4	FERMI	5	HARBOR BEACH	6	MARYSVILLE	7	PENNSAULT
3	UTILITY-PLANT CODE	4	482000-0400	5	482000-0500	6	482000-0700	7	482000-0800	8	482000-1000
4	STATE	5	MICHIGAN	6	MICHIGAN	7	MICHIGAN	8	MICHIGAN	9	MICHIGAN
5	COUNTY	6	WAYNE	7	MONROE	8	HURON	9	ST. CLAIR	10	WAYNE
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	7	123 04	8	124 04	9	125 04	10	123 04	11	123 04
7	PLANT CAPACITY (MM)	8	375.00	9	158.00	10	121.00	11	300.00	12	37.00
8	ANNUAL GENERATION (MMH) 2/	9	1,861,500	10	474,200	11	205,000	12	1,253,200	13	78,700
9	PLANT HEAT RATE (BTU/KWH) 2/	10	13,820	11	13,620	12	10,670	13	13,550	14	49,212
AIR QUALITY CONTROL DATA											
FUEL CONSUMPTION DATA (ANNUAL)											
12	COAL: CONSUMPTION (1,000 TONS)	13		14		15	86.00	16	750.00	17	162.00
13	AVERAGE HEAT CONTENT (BTU/LB)	14		15		16	11,765	17	12,027	18	11,823
14	AVERAGE SULFUR CONTENT (%)	15		16		17	2.71	18	2.63	19	.94
15	AVERAGE ASH CONTENT (%)	16		17		18	12.54	19	12.02	20	11.37
16	AVERAGE MOISTURE CONTENT (%)	17		18		19	7.23	20	5.77	21	7.67
17	OIL: CONSUMPTION (1,000 BARRELS)	18	3,539.94	19	1,074.48	20	27.09	21		22	8.44
18	AVERAGE HEAT CONTENT (BTU/GAL)	19	149,830	20	137,489	21	137,000	22		23	136,412
19	AVERAGE SULFUR CONTENT (%)	20	2.23	21	.44	22	.40	23		24	.33
20	GAS: CONSUMPTION (1,000 MCF)	21	19,022.00	22		23		24	217.00	25	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	22	435	23		24		25	999	26	
PLANT EQUIPMENT DATA											
22	BOILERS: - TOTAL NO.	23	12	24	1	25	1	26	10	27	4
23	- NO. OF WET BOTTOM	24		25		26		27		28	
24	- NO. WITH FLY ASH REINJECTION	25		26		27		28		29	
25	- NO. WITH MECHANICAL PRECIPITATORS	26	12	27		28		29		30	2
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	27		28		29		30		31	
27	- NO. WITH COMBINATION PRECIPITATORS 2/	28		29		30	1	31	4	32	2
28	- NO. WITH DESULFURIZATION SYSTEMS	29		30		31		32		33	
29	- EXCESS AIR USED (%) LOWEST BOILER - HIGHEST BOILER 2/	30	25.00	31	10.00	32	20.00	33	22.00	34	22.00
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	31	80.00	32		33		34	25.00	35	75.00
31	TESTED, LOW - HIGH	32		33		34		35		36	71.00
32	ESTIMATED, LOW - HIGH	33		34		35		36		37	53.00
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 2/ DESIGN, LOW - HIGH	34		35		36	99.60	37	99.60	38	97.66
34	TESTED, LOW - HIGH	35		36		37	99.40	38	99.50	39	99.20
35	EST., LOW - HIGH	36		37		38	99.40	39	99.50	40	98.00
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	37		38		39		40		41	
37	TESTED, LOW - HIGH	38		39		40		41		42	
38	ESTIMATED, LOW - HIGH	39		40		41		42		43	
PLANT OPERATING DATA AND COST OF EQUIPMENT											
39	EST. TOTAL ANNUAL PLANT EMISSIONS 2/ PARTICULATE MATTER (1,000 TONS)	40	.12	41	.18	42	.06	43	15.87	44	1.33
40	SULFUR DIOXIDE (1,000 TONS)	41	26.48	42	1.59	43	4.40	44	38.66	45	2.99
41	NITROGEN OXIDES (1,000 TONS)	42	11.51	43	2.37	44	.83	45	6.51	46	1.48
42	STACKS: - TOTAL NO.	43	6	44	1	45	8	46	4	47	42
43	- HEIGHT (FEET), LOWEST - HIGHEST 2/	44		45		46		47		48	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 2/	45	270.00	46	158.50	47	300.00	48	201.00	49	223.00
45	TOTAL ASH: COLLECTED (1,000 TONS) 2/	46		47		48		49		50	
46	SOLO (1,000 TONS) 2/	47		48		49	10.90	50	77.40	51	17.20
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	48		49		50		51		52	
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 2/	49		50		51		52		53	
49	ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	50		51		52		53		54	
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS \$1,000	51	1,923.00	52		53		54		55	
51	ELECTROSTATIC PRECIPITATORS \$1,000	52		53		54	455.00	55	3,144.00	56	1,096.00
52	COMBINATION PRECIPITATORS \$1,000 2/	53		54		55		56		57	
53	DESULFURIZATION SYSTEMS \$1,000	54		55		56		57		58	
54	STACKS \$1,000	55	104.00	56	110.00	57	241.00	58	112.00	59	40.00
55	ASH COLLECTION AND DISPOSAL EXPENSES \$1,000	56		57		58		59	156.00	60	39.00
56	REVENUES FROM SALE OF ASH \$1,000	57		58		59		60	9.00	61	
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES \$1,000	58		59		60		61		62	
58	REVENUES FROM SALE OF SULFUR PRODUCTS \$1,000	59		60		61		62		63	
59	TOTAL AIR QUALITY CONTROL EXPENSES \$1,000 2/	60	69.00	61		62	41.00	63	475.00	64	94.00
60	TOTAL BYPRODUCT SALES REVENUES \$1,000	61		62		63		64	9.00	65	
WATER QUALITY CONTROL DATA											
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	62	R DETROIT	63	L ERIE	64	L HURON	65	R ST. CLAIR	66	R DETROIT
62	AVERAGE RATE OF WITHDRAWAL (CFD)	63	775.00	64	84.00	65	52.00	66	885.00	67	26.80
63	AVERAGE RATE OF DISCHARGE (CFD)	64	775.00	65	84.00	66	52.00	67	885.00	68	25.40
64	AVE. RATE OF CONSUMPTION (CFD), CALCULATED - REPORTED 2/	65	6.67	66	.72	67	.45	68	7.61	69	.23
65	PEAK LOAD MONTH 1	66	JUN	67	JUN	68	JUN	69	JUN	70	JUN
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	67	80.00	68	70.00	69	56.00	70	64.00	71	70.00
67	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFD) 1/	68	213,000.00	69	63.00	70	67.00	71	70.00	72	90.00
68	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OR 2/	69	209,000.00	70		71		72	208,000.00	73	209,000.00
69	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70		71	8.05	72		73	1.50	74	2.21
70	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71		72	731.79	73	73.50	74	238.68	75	.10
71	LIME (TONS), COOLING WATER - BOILER MAKEUP	72		73		74	9.25	75		76	103.27
72	ALUM (TONS), COOLING WATER - BOILER MAKEUP	73		74		75		76		77	
73	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74		75	6.00	76	4.50	77	1.50	78	6.00
74	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75		76		77		78	6.00	79	
75	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 2/	76	PS	77	YES	78	YES	79	YES	80	YES
76	RECEIVING WATER BODY	77		78		79		80		81	
77	POND DISCHARGE 2/	78	11.00	79	8.50	80	6.50	81	11.00	82	8.50
78	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79		80		81		82		83	
79	VOLUME (1,000 CU.FT./YR), BOILER BLOWDOWN	80		81		82		83		84	
80		81	6,730.00	82	93.50	83	155.00	84	580.00	85	6,900.00
81		82		83		84	7,400.00	85	9,900.00	86	12,300.00
COOLING FACILITY DATA											
83	NO. OF UNITS AND CAPACITY (MM) USING 2/	84	6	85	1	86	1	87	7	88	7
84	ONCE THROUGH COOLING (FRESH)	85	375.00	86	158.00	87	121.00	88	300.00	89	37.00
85	ONCE THROUGH COOLING (SALINE)	86		87		88		89		90	
86	COOLING PONDS 1/	87		88		89		90		91	
87	COOLING TOWERS 1/	88		89		90		91		92	
88	COMBINATIONS 2/	89		90		91		92		93	
89	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	90	1929	91	1942	92	1966	93	1922	94	1947
90	DESIGN: TEMPER. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 2/	91	13.00	92	19.00	93	25.00	94	13.00	95	15.00
91	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFD)	92	1,710.00	93	290.00	94	290.00	95	1,047.00	96	67.00
92	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFD)	93	1,710.00	94	290.00	95	290.00	96	1,047.00	97	67.00
CAPITAL COSTS OF COOLING FACILITIES											
93	ONCE THROUGH COOLING SYSTEMS \$1,000	94	451.00	95	912.00	96	362.00	97	136.00	98	16.00
94	COOLING PONDS \$1,000	95		96		97		98		99	
95	COOLING TOWERS \$1,000	96		97		98		99		100	
ANNUAL COOLING WATER EXPENSES											
96	OPERATION AND MAINTENANCE EXPENSES \$1,000	97	129.00	98	39.00	99	9.00	100	154.00	101	17.00
97	COST OF CHEMICAL ADDITIVES \$1,000	98	1.00	99		100	1.00	101		102	1.00
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES											
98	OPERATION AND MAINTENANCE EXPENSES \$1,000	99	826.00	100	119.00	101	83.00	102	406.00	103	245.00
99	COST OF CHEMICAL ADDITIVES \$1,000	100	62.00	101	6.00	102		103	20.00	104	54.00

TABLE 10. INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	11	THE DETROIT EDISON CO.	THE DETROIT EDISON CO.	THE DETROIT EDISON CO.	THE DETROIT EDISON CO.	THE DETROIT EDISON CO.	1
2	NAME OF PLANT	12	RIVER ROUGE	ST. CLAIR	TRENTON CHANNEL	WYANDOTTE	MONROE	2
3	UTILITY-PLANT CODE	13	482000-1200	482000-1400	482000-1600	482000-1700	482000-1800	3
4	STATE	14	MICHIGAN	MICHIGAN	MICHIGAN	MICHIGAN	MICHIGAN	4
5	COUNTY	15	WAYNE	ST. CLAIR	WAYNE	WAYNE	MONROE	5
6	WATER QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	16	123 04	123 04	123 04	123 04	124 06	6
7	PLANT CAPACITY (MW)	17	933.00	1,905.00	1,076.00	54.00	817.00	7
8	ANNUAL GENERATION (MWH) 3/	18	5,313,700	12,606,200	6,571,900	110,300	2,204,264	8
9	PLANT HEAT RATE (BTU/KWH) 3/	19	9,660	9,210	10,890		9,600	9
10		20						10
11		21						11
AIR QUALITY CONTROL DATA								
FUEL CONSUMPTION DATA (ANNUAL)								
12	COAL: CONSUMPTION (1,000 TONS)	12	1,842.00	4,788.00	2,253.00	321.00	828.00	12
13	AVERAGE HEAT CONTENT (BTU/LB)	13	12,197	11,717	11,872	11,995	12,457	13
14	AVERAGE SULFUR CONTENT (%)	14	3.18	3.06	2.46	.82	2.82	14
15	AVERAGE ASH CONTENT (%)	15	11.33	13.02	12.29	11.03	13.49	15
16	AVERAGE MOISTURE CONTENT (%)	16	5.83	7.20	6.25	7.37	3.24	16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	875.70	588.33	292.99	93.12	93.94	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	144,763	151,690	136,595	136,908	136,000	18
19	AVERAGE SULFUR CONTENT (%)	19	2.40	2.09	.32	.32	.30	19
20	GAS: CONSUMPTION (1,000 MCF)	20	17,158.00	139.00	18,824.00	1,238.00		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	940	999	1,020	1,020		21
PLANT EQUIPMENT DATA								
22	BOILERS: - TOTAL NO.	22	3	7	18	5	1	22
23	- NO. OF WET BOTTOM	23				4		23
24	- NO. WITH FLY ASH REINJECTION	24						24
25	- NO. WITH MECHANICAL PRECIPITATORS	25						25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26		2	18	2	1	26
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27	3	5		2		27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	18.00	13.00	23.00	18.00	26.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30						30
31	TESTED, LOW - HIGH	31						31
32	ESTIMATED, LOW - HIGH	32						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	33	97.40	97.80	91.60	99.60	99.60	33
34	TESTED, LOW - HIGH	34	90.00	97.20	88.50	99.20	98.50	34
35	EST., LOW - HIGH	35	90.00	97.20	82.00	98.80	97.00	35
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36						36
37	TESTED, LOW - HIGH	37						37
38	ESTIMATED, LOW - HIGH	38						38
PLANT OPERATING DATA AND COST OF EQUIPMENT								
39	EST. TOTAL ANNUAL PLANT EMISSIONS: 6/ PARTICULATE MATTER (1,000 TONS)	39	9.70	21.34	4.40	.31	.38	39
40	SULFUR DIOXIDE (1,000 TONS)	40	121.86	291.29	106.95	5.26	45.86	40
41	NITROGEN DIOXIDES (1,000 TONS)	41	21.85	58.86	24.59	5.26	7.66	41
42	STACKS: - TOTAL NO.	42						42
43	- HEIGHT (FEET), LOWEST - HIGHEST 7/	43	385.00	425.00	250.00	600.00	235.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 8/	44						44
45	TOTAL ASH: COLLECTED (1,000 TONS) 9/	45	195.80	476.10	274.90	34.90	106.80	45
46	SOLD (1,000 TONS) 10/	46	16.50	14.80	40.90			46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 11/	48						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50						50
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51		5,472.00	7,169.00	1,170.00	6,749.00	51
52	COMBINATION PRECIPITATORS (\$1,000)	52	5,712.00	5,099.00		994.00		52
53	DESULFURIZATION SYSTEMS (\$1,000)	53						53
54	STACKS (\$1,000)	54		617.00	1,690.00		2,793.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	189.00	574.00	247.00	105.00		55
56	REVENUES FROM SALE OF ASH (\$1,000)	56	22.00		105.00			56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						58
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 12/	59	491.00	1,922.00	959.00	240.00	137.00	59
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60	22.00	43.00	105.00			60
WATER QUALITY CONTROL DATA								
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, R & 13/ EXPL. IN FOOTNOTES)	61	DETROIT	ST. CLAIR	DETROIT	DETROIT	RAISIN	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	1,007.00	1,854.00	1,400.00	152.20	513.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	1,007.00	1,854.00	1,400.00	112.90	513.00	63
64	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	64	8.66	15.94	12.04	1.31	4.41	64
65	PEAK LOAD MONTH: SUMMER - WINTER 15/	65	JUN	JUN	JUN	JUN	JUN	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT OVERSEEN, SUMMER - WINTER	66	70.00	41.00	62.00	42.00	70.00	66
67	AT OUTFALL, SUMMER - WINTER	67	85.00	54.00	76.00	60.00	84.00	67
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	68	213,000.00	206,000.00	213,000.00	213,000.00	213,000.00	68
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, C 16/	69	209,000.00	208,000.00	209,000.00	209,000.00	209,000.00	69
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70		.50	.20	3.90	4.00	70
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71		208.70	93.07	788.37	680.21	71
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	72			35.00	133.65		72
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	73			22.59			73
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74	605.00	26.00	365.94	34.00	156.00	74
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75	PS	YES	PS	YES	PS	75
76	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 17/	76						76
77	RECEIVING WATER BODY	77						77
78	POND DISCHARGE: 18/	78	8.50	8.00	11.00	8.00	8.60	78
79	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79		15.00	10.00	50.00	14.00	79
80	VOLUME (1,000 CU.FT./YR), BOILER BLOWDOWN	80	840.00	3,380.00	2,040.00	12,500.00		80
81	BOILER BLOWDOWN - ASH SETTLING	81						81
82		82	13,000.00	18,800.00	16,930.00	24,000.00	18,900.00	82
COOLING FACILITY DATA								
83	NO. OF UNITS AND CAPACITY (MW) USING: 19/	83	3	7	9	8	1	83
84	ONCE THROUGH COOLING (FRESH)	84	933.00	1,905.00	1,076.00	54.00	817.00	84
85	ONCE THROUGH COOLING (SALINE)	85						85
86	COOLING PONDS (S)	86						86
87	COMBINATIONS 20/	87						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1956	1956	1953	1969	1924	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 21/	89	15.00	17.00	15.00	20.00	8.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	1,004.00	2,070.00	2,132.00	46.00	766.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	1,004.00	2,070.00	2,132.00	46.00	766.00	91
CAPITAL COSTS OF COOLING FACILITIES								
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	2,236.00	4,031.00	935.00		3,226.00	92
93	COOLING PONDS (\$1,000)	93						93
94	COOLING TOWERS (\$1,000)	94						94
ANNUAL COOLING WATER EXPENSES								
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	65.00	44.00	486.00	18.00	93.00	95
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	37.00	1.00	33.00	3.00	3.00	96
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES								
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	686.00	876.00	1,240.00	460.00	551.00	97
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	22.00	18.00	84.00	11.00	35.00	98
ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE								

TABLE 10. INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	THE HARTFORD	THE HARTFORD	THE HARTFORD	THE KANSAS POWER	THE KANSAS POWER	1
2		2	ELECTRIC LIGHT	ELECTRIC LIGHT	ELECTRIC LIGHT	& LIGHT CO.	& LIGHT CO.	2
3		3	CO.	CO.	CO.			3
4	NAME OF PLANT	4	MIDDLETOWN	SOUTH MEADOW	STAMFORD	MUTCHINSON	LAWRENCE	4
5	UTILITY-PLANT CODE	5	483000-0300	483000-0400	483000-0500	483500-0300	483500-0500	5
6	STATE	6	CONNECTICUT	CONNECTICUT	CONNECTICUT	KANSAS	KANSAS	6
7	COUNTY	7	MIDDLESEX	HARTFORD	FAIRFIELD	KANSAS	DOUGLAS	7
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	8	042 01	042 01	043 01	099 11	095 10	8
9	PLANT CAPACITY (MW)	9	422.00	216.75	52.50	252.20	613.35	9
10	ANNUAL GENERATION (MMWH) 3/	10	2,558,200	858,300	144,100	1,436,300	2,034,000	10
11	PLANT HEAT RATE (BTU/KWH) 4/	11	9,886	14,222	18,034	11,100	10,871	11
AIR QUALITY CONTROL DATA								
FUEL CONSUMPTION DATA (ANNUAL)								
12	COAL: CONSUMPTION (1,000 TONS)	12	123.84		2.30		97.00	12
13	AVERAGE HEAT CONTENT (BTU/LB)	13			12,705		12,076	13
14	AVERAGE SULFUR CONTENT (%)	14			3.00		3.73	14
15	AVERAGE ASH CONTENT (%)	15			14.25		12.88	15
16	AVERAGE MOISTURE CONTENT (%)	16			4.05		6.30	16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	3,589.82	1,971.60	375.30	49.00	118.00	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	146,799	147,207	148,419	151,000	147,619	18
19	AVERAGE SULFUR CONTENT (%)	19	1.44	1.57	1.85	1.37	1.52	19
20	GAS: CONSUMPTION (1,000 MCF)	20		1,000	42.72	15,416.00	18,798.00	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21			1,000	1,014	1,015	21
PLANT EQUIPMENT DATA								
22	BOILERS: - TOTAL NO.	22	4	6	5	4	6	22
23	- NO. OF WET BOTTOM	23	3					23
24	- NO. WITH FLY ASH REINJECTION	24	1					24
25	- NO. WITH MECHANICAL PRECIPITATORS	25		3				25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26	1		2			26
27	- NO. WITH COMBINATION PRECIPITATORS 5/	27	2		1			27
28	- NO. WITH DESULFURIZATION SYSTEMS	28					2	28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	5.00	18.00	15.00	30.00	8.00	20.00
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30						
31	TESTED, LOW - HIGH	31						
32	ESTIMATED, LOW - HIGH	32						
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 5/ DESIGN, LOW - HIGH	33	97.00	98.50	90.50	98.00		
34	TESTED, LOW - HIGH	34	97.20	98.80	90.50	95.50		
35	EST., LOW - HIGH	35		67.00	90.00	95.00		
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36						
37	TESTED, LOW - HIGH	37					83.00	36
38	ESTIMATED, LOW - HIGH	38					65.00	38
PLANT OPERATING DATA AND COST OF EQUIPMENT								
39	EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	39	.20	.26	.03	.01	10.64	39
40	SULFUR DIOXIDE (1,000 TONS)	40	17.34	10.39	2.47	.23	7.69	40
41	NITROGEN OXIDES (1,000 TONS)	41	9.77	4.35	4.85	3.11	4.80	41
42	STACKS: - TOTAL NO.	42	3	5	4	5	6	42
43	- HEIGHT (FEET), LOWEST - HIGHEST 6/	43	266.00	164.90	141.75	178.60	129.00	354.80
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 7/	44	.89	.32				
45	TOTAL ASH: COLLECTED (1,000 TONS) 8/	45	26.05	.33	.41			18.00
46	SOLO (1,000 TONS) 9/	46						
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 10/	48						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	49						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50		280.00				
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51	511.00					
52	COMBINATION PRECIPITATORS (\$1,000) 11/	52	560.00					
53	DESULFURIZATION SYSTEMS (\$1,000)	53						
54	STACKS (\$1,000)	54		45.20	72.00	44.80	333.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	24.07	11.37	2.30		18.00	55
56	REVENUES FROM SALE OF ASH (\$1,000)	56						
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57					68.00	57
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 12/	59	141.24	74.56	2.30		86.00	59
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60						
WATER QUALITY CONTROL DATA								
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R CONNECTICUT	R CONNECTICUT	H STAMFORD	W	RW KANSAS	61
62	AVERAGE RATE OF WITHDRAWAL (CFD)	62	340.50	418.00	83.60	6.13	7.63	62
63	AVERAGE RATE OF DISCHARGE (CFD)	63	340.50	418.00	83.60	1.80	1.93	63
64	AVE. RATE OF CONSUMPTION (CFD), CALCULATED - REPORTED 13/	64	2.93	3.59	.72	4.33	5.70	64
65	PEAK LOAD MONTH: SUMMER - WINTER 14/	65	SEP DEC	SEP DEC	SEP DEC	AUG DEC	AUG DEC	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	79.00 40.00	78.00 46.00	77.00 50.00	60.00 60.00	92.00 70.00	66
67	AT OUTFALL, SUMMER - WINTER	67	102.00 81.00	90.00 66.00	88.00 67.00	85.00 40.00	92.00 70.00	67
68	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFD): SUMMER - WINTER	68	6,180.00	6,130.00	TOTAL	89.00	2,660.00	68
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, QIS	69	14,800.00	14,647.00	TOTAL	53.00	2,440.00	69
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70						
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71	.06	.78	.67	13.25	.48	.35
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	72	.01	.88	1.00	1.00		38.35
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	73						
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74	75.00	88.00	6.00	14.00	69.20	74
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75	YES	YES	YES	YES	YES	75
76	SEWAGE DISPOSAL: METHOD (P, S, ST, SW, OT) 15/	76	ST	P5	P5	ST	OT	76
77	RECEIVING WATER BODY	77	O LEACHING FIELD			O DRAIN FIELD	R KANSAS	77
78	POND DISCHARGE 16/	78	6.80			9.50	10.50	9.00
79	SUSPENDED SOLIDS (PPH), BOILER BLOWDOWN - ASH SETTLING	79					25.00	100.00
80	VOLUME (1,000 CU.FT./YR), BOILER BLOWDOWN - ASH SETTLING	80						30.00
81		81	70,455.70			15.00		3,850.00
82		82						
COOLING FACILITY DATA								
83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	83	3	422.00	6	221.75		83
84	ONCE THROUGH COOLING (SALINE)	84			3	52.50		84
85	COOLING PONDS (S)	85					4	252.20
86	COOLING TOWER(S)	86					5	613.35
87	COMBINATIONS 17/	87						
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1954 1964	1921 1950	1923 1940	1949 1965	1960 1971	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 18/	89	18.00 21.00	12.00	10.00	10.90 14.80	21.40	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFD)	90	440.00	508.00	184.50	402.20	395.80	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFD)	91	440.00	508.00	184.50			91
CAPITAL COSTS OF COOLING FACILITIES								
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92			298.00			92
93	COOLING PONDS (\$1,000)	93						93
94	COOLING TOWERS (\$1,000)	94				1,518.00	4,533.00	94
ANNUAL COOLING WATER EXPENSES								
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	106.25	101.56	20.00	80.00	36.00	95
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	7.46	9.12	.80	37.00	107.00	96
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES								
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	47.00	16.29	20.00	19.00	23.00	97
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	23.85	4.18	1.20	2.00	13.00	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10. INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	THE KANSAS POWER	THE KANSAS POWER	THE MONTANA POWER	THE MONTANA POWER	THE NARRAGANSETT
2		2	& LIGHT CO.	& LIGHT CO.	CO.	CO.	ELECTRIC CO.
3		3					
4	NAME OF PLANT	4	ABILENE	TECUMSEH	8IRO	CORETE	MANCHESTER STREET
5	UTILITY-PLANT CODE	5	483500-0600	483500-0700	484500-0400	484500-0700	485000-0100
6	STATE	6	KANSAS	KANSAS	MONTANA	MONTANA	RHODE ISLAND
7	COUNTY	7	OICKINSON	SHAMNEE	YELLOWSTONE	YELLOWSTONE	PROVIDENCE
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	8	096	10	140	140	120
9	PLANT CAPACITY (MW)	9	33.75	346.10	69.00	172.80	132.00
10	ANNUAL GENERATION (MWH) 2/	10	91,000	1,390,400	38,700	615,400	752,600
11	ANNUAL HEAT (BTU/HR) 2/	11	14,010	11,858	16,050	19,690	12,038

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

		FUEL CONSUMPTION DATA (THERMAL)		FUEL CONSUMPTION DATA (ELECTRIC)		FUEL CONSUMPTION DATA (ELECTRIC)	
2	COAL: CONSUMPTION (1,000 TONS)	12		53.00		347.00	12
3	AVERAGE HEAT CONTENT (BTU/LB)	13				8,632	13
4	AVERAGE SULFUR CONTENT (%)	14		12.300			14
5	AVERAGE ASH CONTENT (%)	15		3.88		6.69	15
6	AVERAGE MOISTURE CONTENT (%)	16		13.45		8.21	16
7	DIL: CONSUMPTION (1,000 BARRELS)	17		5.41		25.37	17
8	AVERAGE HEAT CONTENT (BTU/GAL)	18	150.00	23.00			18
9	AVERAGE SULFUR CONTENT (%)	19		147.500			19
10	GAS: CONSUMPTION (1,000 MCF)	20	1.50			991.87	20
11	AVERAGE HEAT CONTENT (BTU/CU.F.T.)	21	1,218.00	1.50		147,714	21
12		22		16,924.00		32.06	22
13		23		474.00		2,582.54	23
14		24		997		1,039	24

PLANT EQUIPMENT DATA

		22	2	9	1	1	3	22
22	BOILERS: - TOTAL NO.	22						22
23	- NO. OF WET BOTTOM	23						23
24	- NO. WITH FLY ASH REINJECTION	24						24
25	- NO. WITH MECHANICAL PRECIPITATORS	25		2			3	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26				1		26
27	- NO. WITH COMBINATION PRECIPITATORS $\frac{1}{2}$	27						27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER $\frac{1}{2}$	29	20.00	8.00	30.00	20.00	21.00	15.00
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN,	30			85.00			85.00
31	TESTED, LOW - HIGH	31						31
32	ESTIMATED, LOW - HIGH	32			85.00			32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY $\frac{1}{2}$: DESIGN,	33				97.00		33
34	TESTED, LOW - HIGH	34				95.20		34
35	EST., LOW - HIGH	35				98.00		35
36	DESULFURIZATION SYSTEM EFFICIENCY : DESIGN,	36						36
37	TESTED, LOW - HIGH	37						37
38	ESTIMATED, LOW - HIGH	38						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

40	EST. TOTAL ANNUAL PLANT EMISSIONS ² <u>3</u> PARTICULATE MATTER (1,000 TONS)	39		1.40			4.48		0.03	39
41	SULFUR DIOXIDE (1,000 TONS)	40		4.15					6.86	40
42	NITROGEN OXIDES (1,000 TONS)	41		3.83					2.69	41
43	STACKS - TOTAL NO.	42	2	8		1		1	2	42
44	- HEIGHT (FEET), LOWEST - HIGHEST ⁴	43	168.00	193.00	203.00	150.00		350.00	207.00	208.00
45	COMBUSTION CYCLE ADDITIVES (1,000 TONS) ⁵	44								
46	TOTAL ASH: COLLECTED (1,000 TONS) ¹⁰	45		5.50				27.80		0.04
47	SOLO (1,000 TONS) ¹¹	46						3.60		0.04
48	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47								
49	EQUIVALENT OF ACID COLLECTED (1,000 TONS) ¹²	48								
50	ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	49								
51	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50		170.00					179.40	50
52	ELECTROSTATIC PRECIPITATORS (\$1,000)	51					1,030.00			51
53	COMBINATION PRECIPITATORS (\$1,000) ⁶	52								52
54	DESULFURIZATION SYSTEMS (\$1,000)	53								53
55	STACKS (\$1,000)	54	31.30	240.00		39.00	269.00		40.80	54
56	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55		15.00			9.00		5.00	55
57	REVENUES FROM SALE OF ASH (\$1,000)	56					9.00			56
58	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSE (\$1,000)	57								57
59	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58								58
60	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) ¹³	59		15.00			9.00		18.10	59
61	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60					9.00		8.00	60

WATER QUALITY CONTROL DATA

61 COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)										61 R SMOKY HILL	61 R KANSAS	61 R YELLOWSTONE	61 R YELLOWSTONE	61 PROVIDENCE	61	
62	AVERAGE RATE OF WITHDRAWAL (CFS)										62 50.60	62 60.80	62 55.00	62 90.00	62 340.00	62
63	AVERAGE RATE OF DISCHARGE (CFS)										63 50.50	63 57.70	63 55.00	63 90.00	63 340.00	63
64	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED/										64	64	64	64	64	64
65	PEAK LOAD MONTH 1										65 AUG .44	65 AUG .10	65 AUG .47	65 AUG .77	65 SEP 2.92	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.):										66 AUG 0EC	66 AUG 04.00	66 AUG 75.00	66 AUG 34.00	66 SEP 75.00	66
67	AT DIVERSION, SUMMER - WINTER										67 89.00	67 88.00	67 75.00	67 34.00	67 75.00	67
68	AT OUTFALL, SUMMER - WINTER										68 99.00	68 58.00	68 101.00	68 76.00	68 39.00	68
69	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS):										69 461.00	69 2,150.00	69 7,625.00	69 7,625.00	69 340.00	69
70	- WINTER										70 480.00	70 2,320.00	70 3,186.00	70 3,186.00	70 340.00	70
71	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OR										71	71	71	71	71	71
72	CHEMICAL ADJUSTIVES: PHOSPHATE (TONS),										72	72	72	72	72	72
73	CAUSTIC SODA (TONS),										73	73	73	73	73	73
74	LIME (TONS),										74	74	74	74	74	74
75	ALUM (TONS),										75	75	75	75	75	75
76	CHLORINE (TONS),										76	76	76	76	76	76
77	OTHER (YES/NO),										77	77	77	77	77	77
78	SEWAGE DISPOSAL: METHODO PS, SH, SW, OT/										78 SH	78 SH	78 OT	78 OT	78 PS	78
79	RECEIVING WATER BODY										79	79	79	79	79	79
80	POND DISCHARGE: BOILER BLOWDOWN - ASH SETTLING										80 9.50	80 10.00	80 9.50	80 8.00	80 8.00	80
81	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING										81	81	81	81	81	81
82	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN										82 21.00	82 165.00	82 7,500.00	82 400.00	82 400.00	82

COOLING FACILITY DATA

84	NO. OF UNITS AND CAPACITY (TWH) USING:	ONCE THROUGH COOLING (FRESH)	83	2	33.75	4	115.00	1	69.00	1	172.80	83	
85		ONCE THROUGH COOLING (SALINE)	84									84	
86		COOLING PONDS(S)	85									85	
87		COOLING TOWER(S)	86			2	231.10					86	3
88		COMBINATIONS	87									87	146.00
89	COOLING SYSTEM, YEAR OF INSTALLATION:	OLDEST SYSTEM - NEWEST SYSTEM	88	1940	1947	1927	1962	1951	1968	1941	1947	88	
90	DESIGN:	TEMP. RISE ACROSS CONDENSERS (DEGREES F.)	89	9.67	11.00	12.50	7.20	24.20	28.80		12.00	89	
91		TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90		103.61		600.60	7.70	115.00		360.00	90	
92		TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91		103.61		280.30	75.70	115.00		339.00	91	

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	193.00	555.00	113.00	396.00	945.00	92
93	COOLING PONDS (\$1,000)	93						93
94	COOLING TOWERS (\$1,000)	94		1,644.00				94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	12.00	71.00	1.00	2.00	1.50	95
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96		29.00			3.06	96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	14.00	67.00	2.00	10.00	5.00	97
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	1.00	20.00		1.00	1.98	98

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	THE NARAPANSETT ELECTRIC CO.	1	THE POTOMAC EOLSON CO.	1	THE TOLEDO EOLSON CO.	1	THE TOLEDO EOLSON CO.	1	THE TUCSON GAS & ELECTRIC CO.
2	NAME OF PLANT	2	SOUTH STREET	2	SMITH	2	ACME	2	BAY SHORE	2	DEMOSSE PETRIE
3	UTILITY-PLANT CODE	3	485000-0300	3	485000-0300	3	488000-0100	3	488000-0200	3	488000-0100
4	STATE	4	RHODE ISLAND	4	MARYLAND	4	OHIO	4	OHIO	4	ARIZONA
5	COUNTY	5	PROVIDENCE	5	WASHINGTON	5	LUCAS	5	LUCAS	5	PIMA
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	120	6	113	6	124	6	124	6	015
7	PLANT CAPACITY (MW)	7	145.90	7	109.50	7	321.00	7	638.00	7	104.50
8	ANNUAL GENERATION (MWH) 3/	8	560,100	8	568,600	8	806,000	8	4,006,300	8	222,700
9	PLANT HEAT RATE (BTU/KWH) 3/	9	13,871	9	11,117	9	13,228	9	9,301	9	14,122
AIR QUALITY CONTROL DATA											
FUEL CONSUMPTION DATA (ANNUAL)											
12	COAL: CONSUMPTION (1,000 TONS)	12		12	271.00	12	383.00	12	1,553.40	12	
13	AVERAGE HEAT CONTENT (BTU/LB)	13		13	11,628	13	12,060	13	11,969	13	
14	AVERAGE SULFUR CONTENT (%)	14		14	1.00	14	2.60	14	2.11	14	
15	AVERAGE ASH CONTENT (%)	15		15	15.52	15	12.62	15	12.74	15	
16	AVERAGE MOISTURE CONTENT (%)	16		16	6.16	16	5.08	16	6.04	16	
17	OIL: CONSUMPTION (1,000 BARRELS)	17	1,286.00	17	3.47	17	166.00	17		17	26.10
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	148,445	18	139,000	18	155,331	18	138,110	18	150,300
19	AVERAGE SULFUR CONTENT (%)	19	2.14	19	.25	19	1.02	19	.52	19	1.14
20	GAS: CONSUMPTION (1,000 MCF)	20		20		20	1,488.00	20		20	2,775.70
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21		21		21	526	21		21	1,076
PLANT EQUIPMENT DATA											
22	BOILERS: - TOTAL NO.	22	10	22	6	22	10	22	4	22	4
23	- NO. OF WET BOTTOM	23		23		23		23		23	
24	- NO. WITH ELY ASH REINJECTION	24		24		24		24		24	
25	- NO. WITH MECHANICAL PRECIPITATORS	25	2	25	4	25	3	25	2	25	2
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26		26	2	26		26		26	
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27		27		27		27		27	
28	- NO. WITH DESULFURIZATION SYSTEMS	28		28		28		28		28	
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	12.00	29	40.00	29	20.00	29	50.00	29	25.00
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30		30	86.00	30	83.00	30	115.00	30	17.00
31	TESTED, LOW - HIGH	31		31		31		31		31	23.00
32	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/	32		32		32		32		32	5.00
33	DESIGN, LOW - HIGH	33		33	90.00	33	94.00	33	99.50	33	98.50
34	TESTED, LOW - HIGH	34		34		34	96.30	34	98.00	34	99.50
35	EST., LOW - HIGH	35		35	90.00	35	97.00	35	98.00	35	99.50
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36		36		36		36		36	
37	TESTED, LOW - HIGH	37		37		37		37		37	
38	ESTIMATED, LOW - HIGH	38		38		38		38		38	
PLANT OPERATING DATA AND COST OF EQUIPMENT											
39	EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	39	.07	39	1.00	39	.67	39	2.18	39	
40	SULFUR DIOXIDE (1,000 TONS)	40	9.23	40	5.31	40	20.19	40	64.26	40	
41	NITROGEN OXIDES (1,000 TONS)	41	2.84	41	2.45	41	3.54	41	12.95	41	.10
42	STACKS: - TOTAL NO.	42	5	42	8	42	4	42	4	42	4
43	- HEIGHT (FEET), LOWEST - HIGHEST 7/	43		43		43		43		43	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 8/	44	107.00	44	325.00	44	132.00	44	200.00	44	246.00
45	TOTAL ASH: COLLECTED (1,000 TONS) 9/	45		45	.82	45	41.50	45	298.00	45	250.00
46	SOLD (1,000 TONS) 10/	46		46		46	2.40	46	53.40	46	197.50
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47		47		47		47		47	
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 11/	48		48		48		48		48	
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49		49		49		49		49	
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50	101.60	50	180.00	50		50		50	
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51	256.80	51	674.00	51		51	1,284.00	51	803.80
52	COMBINATION PRECIPITATORS (\$1,000) 12/	52		52		52		52	680.00	52	937.20
53	DESULFURIZATION SYSTEMS (\$1,000)	53		53		53		53		53	
54	STACKS (\$1,000)	54	279.40	54	59.00	54	194.10	54	839.20	54	
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	10.00	55	70.70	55	219.00	55	255.00	55	
56	REVENUES FROM SALE OF ASH (\$1,000)	56		56	2.40	56		56		56	
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57		57		57		57		57	
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58		58		58		58		58	
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	59	51.60	59	70.70	59	219.00	59	255.00	59	
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60		60	2.40	60		60		60	
WATER QUALITY CONTROL DATA											
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	B	61	PROVIDENCE	61	R	61	MAUMEE	61	MAUMEE
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	310.00	62	165.00	62	300.00	62	1,088.00	62	W
63	AVERAGE RATE OF DISCHARGE (CFS)	63	322.00	63	164.90	63	300.00	63	1,088.00	63	1.57
64	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	64	2.67	64	1.42	64	2.58	64	9.36	64	1.17
65	PEAK LOAD MONTH: SUMMER - WINTER 15/	65	SEP	65	JAN	65	JUN	65	JUN	65	JUL
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	72.00	66	35.00	66	83.00	66	82.00	66	48.00
67	AT OUTFALL, SUMMER - WINTER	67	85.00	67	94.00	67	98.00	67	90.00	67	55.00
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68	310.00	68	1,190.00	68	1,500.00	68	90.00	68	70.00
69	- WINTER	69	310.00	69	3,340.00	69	3,376.00	69		69	
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OR 16/	70		70		70		70		70	
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71		71	36.36	71	.05	71	.06	71	.03
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72		72	1.23	72	38.16	72	9.20	72	.20
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73		73		73	7.00	73		73	
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74		74		74	.30	74		74	
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75		75		75	.10	75		75	
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76	5.63	76	.63	76	46.52	76	390.00	76	YES
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 17/	77	PS	77	PS	77	PS	77	PS	77	PS
78	RECEIVING WATER BODY	78		78		78		78		78	
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	79		79	10.00	79	8.50	79	8.16	79	
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80		80		80	4.20	80	62.00	80	
81	VOLUME (1,000 CU.FT./YR), BOILER BLOWDOWN	81		81		81	30.97	81		81	
82	- ASH SETTLING	82		82		82	20,968.00	82	.07	82	
COOLING FACILITY DATA											
83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	83		83		83		83		83	
84	ONCE THROUGH COOLING (SALINE)	84	4	84	188.00	84	159.50	84	314.50	84	638.00
85	COOLING POND(S)	85		85		85		85		85	
86	COOLING TOWER(S)	86		86		86		86		86	
87	COMBINATIONS 18/	87		87		87		87		87	
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1924	88	1953	88	1923	88	1957	88	1918
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 19/	89	17.00	89	30.00	89	18.00	89	21.50	89	1955
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90		90	399.00	90	349.50	90	607.00	90	1,149.00
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91		91	359.00	91	349.50	91	607.00	91	1,149.00
CAPITAL COSTS OF COOLING FACILITIES											
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92		92	2,145.00	92	657.00	92	1,158.00	92	3,298.00
93	COOLING PONDS (\$1,000)	93		93		93		93		93	
94	COOLING TOWERS (\$1,000)	94		94		94		94		94	
ANNUAL COOLING WATER EXPENSES											
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95		95	1.00	95	65.80	95	8.50	95	137.50
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96		96	2.72	96	4.0	96	36.70	96	30.40
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES											
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97		97	.50	97	55.60	97	42.00	97	45.90
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98		98	10.50	98	2.10	98	2.30	98	2.80

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10. INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	THE TUCSON GAS & ELECTRIC CO.	THE UNITED ILLUMINATING CO.	THE UNITED ILLUMINATING CO.	THE UNITED ILLUMINATING CO.	UNION ELECTRIC CO.	2
2		2						2
3		3						3
4	NAME OF PLANT	4	IRVINGTON	BRIDGEPORT HARBOR	ENGLISH	STEEL	ASHLEY	4
5	UTILITY-PLANT CODE	5	488500-0200	489500-0100	489500-0200	489500-0400	512500-0100	5
6	STATE	6	ARIZONA	CONNECTICUT	CONNECTICUT	CONNECTICUT	MISSOURI	6
7	COUNTY	7	PIMA	FAIRFIELD	NEW HAVEN	FAIRFIELD	CITY OF ST. LOUIS	7
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	8	015 15	043 01	042 01	043 01	070 07	8
9	PLANT CAPACITY (MW)	9	504.54	660.50	146.30	155.50	70.00	9
10	ANNUAL GENERATION (MWH) 3/	10	2,170,600	4,160,400	378,600	634,200	22,700	10
11	HEAT RATE (BTU/KWH) 3/	11	10,095	10,047	17,264	18,214	26,483	11

AIR QUALITY CONTROL DATA

FUEL CONSUMPTION DATA (ANNUAL)

12	COAL: CONSUMPTION (1,000 TONS)	12				150.80	12
13	AVERAGE HEAT CONTENT (BTU/LB)	13				11,196	13
14	AVERAGE SULFUR CONTENT (%)	14				2.98	14
15	AVERAGE ASH CONTENT (%)	15				10.20	15
16	AVERAGE MOISTURE CONTENT (%)	16				11.27	16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	130.00	6,701.00	1,047.00	1,851.00	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	151,831	148,423	148,628	148,593	18
19	AVERAGE SULFUR CONTENT (%)	19		1.67	1.82	1.76	19
20	GAS: CONSUMPTION (1,000 MCF)	20	19,627.70				20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,075				21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	22	4	3	14	27	5	22
23	- NO. OF WET BOTTOM	23		2				23
24	- NO. WITH FLY ASH REINJECTION	24		3				24
25	- NO. WITH MECHANICAL PRECIPITATORS	25		3				25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26		3	2	7	5	26
27	- NO. WITH COMBINATION PRECIPITATORS 1/2	27						27
28	- NO. WITH OESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (1), LOWEST BOILER - HIGHEST BOILER 1/2	29	7.50	12.00	30.00	19.00	30.00	23.00
30	MECHANICAL PRECIPITATOR EFFICIENCY : DESIGN, LOW - HIGH	30						30
31	TESTED, LOW - HIGH	31						31
32	ESTIMATED, LOW - HIGH	32						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 1/2 : DESIGN, LOW - HIGH	33	97.50	99.50	95.00	95.00	90.00	90.00
34	TESTED, LOW - HIGH	34		75.00			89.60	96.60
35	EST., LOW - HIGH	35	12.00	67.00	62.00	26.00	53.00	97.00
36	OESULFURIZATION SYSTEM EFFICIENCY : DESIGN, LOW - HIGH	36						36
37	TESTED, LOW - HIGH	37						37
38	ESTIMATED, LOW - HIGH	38						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

40	EST. TOTAL ANNUAL PLANT EMISSIONS ²⁷ PARTICULATE MATTER (1,000 TONS)	39		.02		.53		.12		.22		.41	39
41	SULFUR DIOXIDE (1,000 TONS)	40		.43		37.54	6.39		10.93		10.40		40
42	NITROGEN OXIDES (1,000 TONS)	41		4.11		14.78	2.31		4.08		1.75		41
43	STACKS: - TOTAL NO.	42		4		3	6		7		4		42
44	- HEIGHT (FEET), LOWEST - HIGHEST ²⁸	43	130.00	146.00	203.00	498.00	233.00	235.00	175.00	182.00	180.00	186.00	43
45	COMBUSTION CYCLE ADDITIVES (1,000 TONS) ²⁹	44											44
46	TOTAL ASH: COLLECTED (1,000 TONS) ³⁰	45				6.10		.60		1.00		15.10	45
47	SOLO (1,000 TONS) ³¹	46											46
48	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47											47
49	EQUIVALENT OF ACID COLLECTED (1,000 TONS) ³²	48											48
50	ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	49											49
51	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50											50
52	ELECTROSTATIC PRECIPITATORS (\$1,000)	51				2,167.30		247.94		385.55		364.00	51
53	COMBINATION PRECIPITATORS (\$1,000) ³³	52											52
54	DESULFURIZATION SYSTEMS (\$1,000)	53											53
55	STACKS (\$1,000)	54				914.25		155.93		191.48		92.00	54
56	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55				44.02		6.00		38.00		47.30	55
57	REVENUES FROM SALE OF ASH (\$1,000)	56				7.00							56
58	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57											57
59	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58											58
60	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) ³⁴	59				155.00		22.00		65.00		239.50	59
	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60				7.00							60

WATER QUALITY CONTROL DATA

[illegible]

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (TMT) USING:	ONCE THROUGH COOLING (FRESH)	83							4	70.00	83
84		ONCE THROUGH COOLING (SALINE)	84	1	399.50	8	146.25	11	155.50			84
85		COOLING PONDS(S)	85									85
86		COOLING TOWER(S)	86	4	504.50							86
87		COMBINATIONS ⁽²⁾	87									87
88	COOLING SYSTEM, YEAR OF INSTALLATION:	OLDEST SYSTEM - NEWEST SYSTEM	88	1958	1967	1957	1953	1950	1917	1920		88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST ⁽²⁾		89	21.00	28.00	11.20	7.40	18.20	13.10	18.70	20.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFPS)		90		402.00			581.08		420.16	285.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFPS)		91					581.08		420.16	285.00	91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92		3,398.63	873.70	1,122.00	120.00	92
93	COOLING PONDS (\$1,000)	93						93
94	COOLING TOWERS (\$1,000)	94	1,089.00	100.18				94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95		217.70	151.10	40.00	10.00	95
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	21.20	5.00	8.30	5.00		96
TOTAL OPERATING EXPENSES								

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97		149.50	87.50	115.20	12.00	97
98	COST OF CHEMICAL ADJUTIVES (\$1,000)	98	3.30	38.70	3.20	18.20	37.00	98

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	UNION ELECTRIC CO.	UNION ELECTRIC CO.	UNION ELECTRIC CO.	UNION ELECTRIC CO.	UNION ELECTRIC CO.	1	UNION ELECTRIC CO.	
2	NAME OF PLANT	2	CAHOKIA	MERAMEC	ST. LOUIS	VENICE #1	VENICE #2	2	VENICE #2	
3	UTILITY-PLANT CODE	3	512500-0200	512500-0400	512500-0700	512500-1000	512500-1100	3	512500-1100	
4	STATE	4	ILLINOIS	MISSOURI	MISSOURI	ILLINOIS	ILLINOIS	4	ILLINOIS	
5	COUNTY	5	ST. CLAIR	ST. LOUIS	ST. CHARLES	MAISON	MAISON	5	MAISON	
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	070	070	070	070	070	6	070	
7	PLANT CAPACITY (MW)	7	300.00	923.00	1,100.00	55.00	474.00	7	474.00	
8	ANNUAL GENERATION (MWH) 2/	8	411,000	4,660,300	4,737,500	4,100	1,960,400	8	1,960,400	
9	PLANT HEAT RATE (BTU/KWH) 3/	9	19,621	10,335	10,310	22,316	13,459	9	13,459	
AIR QUALITY CONTROL DATA										
FUEL CONSUMPTION DATA (ANNUAL)										
12	COAL: CONSUMPTION (1,000 TONS)	12	203.90	1,950.60	2,184.60		753.00	12	753.00	
13	AVERAGE HEAT CONTENT (BTU/LB)	13	11,155	11,328	11,173		11,667	13	11,667	
14	AVERAGE SULFUR CONTENT (%)	14	3.34	2.46	3.30		2.34	14	2.34	
15	AVERAGE ASH CONTENT (%)	15	10.53	9.76	14.52		8.98	15	8.98	
16	AVERAGE MOISTURE CONTENT (%)	16	11.59	10.67	7.90		8.74	16	8.74	
17	OIL: CONSUMPTION (1,000 BARRELS)	17	557.60		4.40			17		
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	152,000		138,000			18		
19	AVERAGE SULFUR CONTENT (%)	19	2.36		1.0			19		
20	GAS: CONSUMPTION (1,000 MCF)	20		3,888.50				20		
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21		1,050		87.70	8,513.00	21	8,513.00	
PLANT EQUIPMENT DATA										
22	BOILERS: - TOTAL NO.	22	22	4	2	11	8	22	8	
23	- NO. OF WET BOTTOM	23			2			23		
24	- NO. WITH FLY ASH REINJECTION	24						24		
25	- NO. WITH MECHANICAL PRECIPITATORS	25						25		
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26	8	4	2			26		
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27						27		
28	- NO. WITH DESULFURIZATION SYSTEMS	28		1				28		
29	EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	23.00	23.00	23.00	23.00	23.00	29	23.00	
30	MECHANICAL PRECIPITATOR EFFICIENCY (%): DESIGN, LOW - HIGH	30						30		
31	TESTED, LOW - HIGH	31						31		
32	ESTIMATED, LOW - HIGH	32						32		
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/: DESIGN, LOW - HIGH	33		90.00	97.50	98.00		33		
34	TESTED, LOW - HIGH	34	84.00	98.30	97.20	98.80	90.00	34	95.00	
35	EST., LOW - HIGH	35		95.00	98.00	98.00	87.80	35	95.10	
36	DESULFURIZATION SYSTEM EFFICIENCY (%): DESIGN, LOW - HIGH	36						36		
37	TESTED, LOW - HIGH	37						37		
38	ESTIMATED, LOW - HIGH	38						38		
PLANT OPERATING DATA AND COST OF EQUIPMENT										
39	EST. TOTAL ANNUAL PLANT EMISSIONS 2/:	39						39		
40	PARTICULATE MATTER (1,000 TONS)	40	1.01	3.24	.63		1.47	40	1.47	
41	SULFUR DIOXIDE (1,000 TONS)	41	17.76	94.05	141.30		34.54	41	34.54	
42	NITROGEN OXIDES (1,000 TONS)	42	3.06	18.31	60.09	.02	7.74	42	7.74	
43	STACKS: - TOTAL NO.	43	6	4	2	4	8	43	8	
44	- HEIGHT (FEET), LOWEST - HIGHEST 1/	44	329.00	250.00	350.00	600.00	210.00	44	237.00	
45	COMBUSTION CYCLE ADJUSTERS (1,000 TONS) 1/	45						45		
46	TOTAL ASH: COLLECTED (1,000 TONS) 1/	46	20.40	187.80	316.90		66.00	46	66.00	
47	SOLD (1,000 TONS) 1/	47		70.00	.30			47		
48	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	48						48		
49	EQUIVALENT OF ACIO COLLECTED (1,000 TONS) 1/2	49						49		
50	ELEMENTAL AND EQUIVALENT OF ACIO SOLD (1,000 TONS)	50						50		
51	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	51	647.00	2,973.00	1,373.00		1,017.00	51	1,017.00	
52	ELECTROSTATIC PRECIPITATORS (\$1,000)	52						52		
53	COMBINATION PRECIPITATORS (\$1,000) 4/	53		1,304.00				53		
54	DESULFURIZATION SYSTEMS (\$1,000)	54		850.00				54		
55	STACKS (\$1,000)	55	318.00	129.40	148.90	49.00	418.00	55	418.00	
56	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	56	64.20	104.00	.30		114.00	56	114.00	
57	REVENUES FROM SALE OF ASH (\$1,000)	57		36.90				57		
58	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	58						58		
59	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	59	547.40	315.82	166.70		118.00	59	118.00	
60	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 1/3	60		106.50	.30			60		
61	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	61						61		
WATER QUALITY CONTROL DATA										
62	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	62	R MISSISSIPPI	R MISSISSIPPI	R MISSISSIPPI	R MISSISSIPPI	R MISSISSIPPI	62	R MISSISSIPPI	
63	AVERAGE RATE OF WITHDRAWAL (CFD)	63	162.00	590.00	640.00	1.00	500.00	63	500.00	
64	AVERAGE RATE OF DISCHARGE (CFD)	64	162.00	590.00	640.00	1.00	500.00	64	500.00	
65	AVERAGE RATE OF CONSUMPTION (CFD), CALCULATED - REPORTED 1/4	65	1.39	5.07	5.50	.01	4.30	65	4.30	
66	PEAK LOAD MONTH: SUMMER - WINTER 1/5	66	JUN	DEC	JUN	DEC	JUN	DEC	66	
67	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	67	84.00	41.00	83.00	51.00	83.00	41.00	67	
68	AT OUTFALL, SUMMER - WINTER	68	105.00	61.00	102.00	78.00	105.00	63.00	68	
69	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFD): SUMMER	69	207,700.00	207,700.00	107,500.00	207,700.00	207,700.00	207,700.00	69	
70	- WINTER	70	176,000.00	176,000.00	96,970.00	176,000.00	176,000.00	176,000.00	70	
71	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D 1/6	71						71		
72	CHEMICAL ADJUSTERS: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	72		8.85	7.65		6.38	72	6.38	
73	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	73		.30	562.47	290.62		73		
74	LIME (TONS), COOLING WATER - BOILER MAKEUP	74		53.63	140.00	120.00	159.90	74	159.90	
75	ALUM (TONS), COOLING WATER - BOILER MAKEUP	75						75		
76	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	76	4.00	236.99				76		
77	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	77	YES	YES	YES	YES	YES	77	YES	
78	SEWAGE DISPOSAL: METHOD (P, S, ST, SW, OT) 1/7	78	SW	ST	OT	SW	ST	78	SW	
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	79	R MISSISSIPPI	R MISSISSIPPI	R MISSISSIPPI	R MISSISSIPPI	R MISSISSIPPI	79	R MISSISSIPPI	
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80			6.40			80		
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	81			50.00			81		
82		82						82		
COOLING FACILITY DATA										
83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	83	6	310.00	4	923.00	2	1,099.60	83	2
84	ONCE THROUGH COOLING (SALINE)	84							84	
85	COOLING POND(S)	85							85	
86	COOLING TOWER(S)	86							86	
87	COMBINATIONS 2/	87							87	
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1924	1937	1953	1961	1967	1968	1924	1929
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 2/	89		20.00	15.50	22.30		20.90		20.00
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFD)	90		857.00		928.00		1,040.00		121.00
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFD)	91		857.00		928.00		1,040.00		121.00
CAPITAL COSTS OF COOLING FACILITIES										
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92		335.00		7,638.00		4,259.00		51.00
93	COOLING PONDS (\$1,000)	93								7,498.00
94	COOLING TOWERS (\$1,000)	94								
ANNUAL COOLING WATER EXPENSES										
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95		26.00		81.00		99.00		427.00
96	COST OF CHEMICAL ADJUSTERS (\$1,000)	96		1.00		10.00				
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES										
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97		33.00		61.00		150.00		125.00
98	COST OF CHEMICAL ADJUSTERS (\$1,000)	98		8.00		61.00		75.00		7.00

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	2	UNION ELECTRIC CO.	3	UNITED POWER ASSOC.	4	UNIVERSITY OF ILLINOIS	5	UPPER PENINSULA GEN. CO.	6	UTAH POWER & LIGHT CO.	7
1	NAME OF PLANT	2	LABAOTIE	3	STANTON	4	ABERTT	5	PRESQUE ISLE	6	CARBON	7
2	UTILITY-PLANT CODE	3	512500-1200	4	513500-0100	5	514500-0100	6	516000-0100	7	517000-0500	8
3	STATE	4	MISSOURI	5	NORTH DAKOTA	6	ILLINOIS	7	MICHIGAN	8	UTAH	9
4	COUNTY	5	FRANKLIN	6	MERCER	7	CHAMPAIGN	8	MARQUETTE	9	CARBON	10
5	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	095	11	172	10	066	05	126	04	219	14
6	PLANT CAPACITY (MW)	7	1,241.00	8	172.00	9	30.00	10	178.90	11	188.64	12
7	ANNUAL GENERATION (MMH) 3/	8	3,805,100	9	1,022,300	10	81,400	11	1,086,800	12	728,700	13
8	PLANT HEAT RATE (BTU/KWH) 3/	9	10,194	10	11,782	11	47,305	12	11,105	13	11,339	14
AIR QUALITY CONTROL DATA												
FUEL CONSUMPTION DATA (ANNUAL)												
15	COAL: CONSUMPTION (1,000 TONS)	16	1,715.80	17	867.60	18	144.98	19	476.80	20	328.71	21
16	AVERAGE HEAT CONTENT (BTU/LB)	17	11,164	18	6,911	19	11,940	20	12,540	21	12,233	22
17	AVERAGE SULFUR CONTENT (%)	18	2.99	19	.70	20	2.47	21	1.20	22	.55	23
18	AVERAGE ASH CONTENT (%)	19	10.02	20	7.40	21	9.26	22	11.20	23	8.60	24
19	AVERAGE MOISTURE CONTENT (%)	20	11.36	21	35.20	22	7.71	23	5.30	24	5.46	25
20	OIL: CONSUMPTION (1,000 BARRELS)	21	79.70	22	9.10	23	66.74	24	19.60	25	3.91	26
21	AVERAGE HEAT CONTENT (BTU/GAL)	22	138,000	23	137,550	24	138,000	25	136,143	26	140,000	27
22	AVERAGE SULFUR CONTENT (%)	23	.10	24	.10	25	.15	26	.10	27	.20	28
23	GAS: CONSUMPTION (1,000 MCF)	24		25		26		27		28		29
24	AVERAGE HEAT CONTENT (BTU/CU.FT.)	25		26		27		28		29		30
PLANT EQUIPMENT DATA												
30	BOILERS: - TOTAL NO.	31	2	32	1	33	7	34	4	35	2	36
31	- NO. OF WET BOTTOM	32		33		34		35	3	36		37
32	- NO. WITH FLY ASH REINJECTION	33		34		35	3	36		37		38
33	- NO. WITH MECHANICAL PRECIPITATORS	34		35	1	36	7	37	4	38	2	39
34	- NO. WITH ELECTROSTATIC PRECIPITATORS	35	2	36		37		38		39		40
35	- NO. WITH COMBINATION PRECIPITATORS 4/	36		37		38		39		40		41
36	- NO. WITH DESULFURIZATION SYSTEMS	37		38		39		40		41		42
37	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	38	23.00	39	23.00	40	20.00	41	35.00	42	18.00	43
38	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	39		40	85.00	41	92.00	42	95.20	43	85.00	44
39	TESTED, LOW - HIGH	40		41	81.50	42	85.00	43	90.00	44	75.00	45
40	ESTIMATED, LOW - HIGH	41		42		43		44		45	75.00	46
41	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/	42	99.50	43		44		45		46	80.70	47
42	DESIGN, LOW - HIGH	43		44		45		46		47		48
43	TESTED, LOW - HIGH	44	96.00	45		46		47		48		49
44	EST., LOW - HIGH	45	99.00	46		47		48		49		50
45	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	46		47		48		49		50		51
46	TESTED, LOW - HIGH	47		48		49		50		51		52
47	ESTIMATED, LOW - HIGH	48		49		50		51		52		53
PLANT OPERATING DATA AND COST OF EQUIPMENT												
54	EST. TOTAL ANNUAL PLANT EMISSIONS 7/	55	1.46	56	10.10	57	1.81	58	9.11	59	5.17	60
55	PARTICULATE MATTER (1,000 TONS)	56		57		58		59		60		61
56	SULFUR DIOXIDE (1,000 TONS)	57	100.58	58	11.90	59	7.05	60	11.21	61	3.54	62
57	NITROGEN OXIDES (1,000 TONS)	58	15.62	59	7.83	60	1.23	61	6.69	62	2.97	63
58	STACKS: - TOTAL NO.	59	2	60	1	61	2	62	4	63	2	64
59	- HEIGHT (FEET), LOWEST - HIGHEST 8/	60	700.00	61	255.00	62	200.00	63	204.00	64	147.50	65
60	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	61		62		63		64		65		66
61	TOTAL ASH: COLLECTED (1,000 TONS) 10/	62	171.00	63	55.20	64	12.50	65	41.30	66	23.29	67
62	SOLD (1,000 TONS) 11/	63		64		65		66		67	1.43	68
63	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	64		65		66		67		68		69
64	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	65		66		67		68		69		70
65	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	66		67		68		69		70		71
66	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	67	4,838.00	68	115.50	69	103.60	70	119.00	71	173.88	72
67	ELECTROSTATIC PRECIPITATORS (\$1,000)	68		69		70		71		72		73
68	COMBINATION PRECIPITATORS (\$1,000) 4/	69		70		71		72		73		74
69	DESULFURIZATION SYSTEMS (\$1,000)	70		71		72		73		74		75
70	STACKS (\$1,000)	71	3,793.00	72	150.00	73	47.90	74	115.00	75	119.89	76
71	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	72	115.10	73	77.00	74	13.62	75	99.10	76	59.00	77
72	REVENUES FROM SALE OF ASH (\$1,000)	73		74		75		76		77	7.13	78
73	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	74		75		76		77		78		79
74	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	75		76		77		78		79		80
75	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	76	132.90	77	77.00	78	13.62	79	99.10	80	59.00	81
76	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	77		78		79		80		81	7.13	82
WATER QUALITY CONTROL DATA												
83	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & D EXPL. IN FOOTNOTES)	84	R MISSOURI	85	R MISSOURI	86	M	87	R OEO	88	R PRICE	89
84	AVERAGE RATE OF WITHDRAWAL (CFS)	85	252.00	86	220.00	87	.10	88	183.80	89	3.00	90
85	AVERAGE RATE OF DISCHARGE (CFS)	86	252.00	87	220.00	88	.05	89	183.80	90	1.00	91
86	AVE. RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	87	2.17	88	1.89	89	.10	90	1.58	91	2.00	92
87	PEAK LOAD MONTH: SUMMER - WINTER	88	JUN	89	JUL	90	JUN	91	JAN	92		93
88	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	89	83.00	90	62.00	91	70.00	92	37.00	93		94
89	AT OUTFALL, SUMMER - WINTER	90	113.00	91	75.00	92	95.00	93	62.00	94		95
90	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	91	106,300.00	92	36,900.00	93		94		95	190.00	96
91	- WINTER	92	84,400.00	93	24,200.00	94		95		96	15.00	97
92	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D 15/	93		94		95		96		97		98
93	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	94	4.00	95	.35	96	.40	97	2.29	98	15.00	99
94	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	95	632.48	96	113.00	97	72.88	98	.20	99	.40	100
95	LIME (TONS), COOLING WATER - BOILER MAKEUP	96	691.52	97	13.00	98		99		100		101
96	ALUM (TONS), COOLING WATER - BOILER MAKEUP	97		98	6.00	99		100		101		102
97	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	98		99		100		101	8.00	102	2.50	103
98	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	99	YES	100	YES	101	YES	102	YES	103	YES	104
99	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 16/	100	OT	101	ST	102	PS	103	ST	104		105
100	RECEIVING WATER BODY	101	ASH POND	102		103		104		105		106
101	BOILER BLOWDOWN - ASH SETTLING	102	8.20	103	9.00	104	9.90	105		106	9.80	107
102	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	103	50.00	104	.05	105	24.00	106		107		108
103	VOLUME (1,000 CU.FT./YR), BOILER BLOWDOWN - ASH SETTLING	104	116,800.00	105	180.00	106		107		108		109
104		105	116,800.00	106	19,000.00	107		108	1,350.00	109	21,700.00	110
COOLING FACILITY DATA												
111	NO. OF UNITS AND CAPACITY (MM) USING: ONCE THROUGH COOLING (FRESH)	112	2	113	1	114		115	4	116		117
112	ONCE THROUGH COOLING (SALINE)	113	1,241.00	114	172.00	115		116	174.70	117		118
113	COOLING PONDS (S)	114		115		116	7	117		118	2	119
114	COOLING TOWER(S)	115		116		117	30.00	118		119	188.64	120
115	COMBINATION 17/	116		117		118		119		120		121
116	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	117	1970	118	1966	119	1953	120	1960	121	1955	122
117	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 18/	118	29.70	119	16.00	120	10.00	121	26.00	122	19.00	123
118	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	119	838.00	120	220.00	121	90.00	122	171.00	123	221.00	124
119	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	120	954.00	121	220.00	122		123	182.00	124		125
CAPITAL COSTS OF COOLING FACILITIES												
126	ONCE THROUGH COOLING SYSTEMS (\$1,000)	127	9,412.00	128	650.00	129		130	1,166.00	131		132
127	COOLING PONDS (\$1,000)	128		129		130		131		132		133
128	COOLING TOWERS (\$1,000)	129		130		131	194.00	132		133	480.51	134
ANNUAL COOLING WATER EXPENSES												
135	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	136	19.00	137	5.00	138	10.67	139	5.70	140	85.00	141
136	COST OF CHEMICAL ADDITIVES (\$1,000)	137		138		139	.71	140	1.80	141	33.00	142
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES												
143	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	144	55.00	145	36.00	146	20.16	147	13.40	148	13.00	149
144	COST OF CHEMICAL ADDITIVES (\$1,000)	145	82.00	146	51.00	147	11.06	148	2.90	149	1.70	150

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	UTAH POWER & LIGHT CO.	UTAH POWER & LIGHT CO.	UTAH POWER & LIGHT CO.	UTAH POWER & LIGHT CO.	VIRGINIA ELECTRIC & POWER CO.	1
2		2						2
3		3						3
4	NAME OF PLANT	4	GAOSBY	HALE	JORDAN	NAUGHTON	8REMO BLUFF	4
5	UTILITY-PLANT CODE	5	517000-1000	517000-1500	517000-1700	517000-2000	525000-0200	5
6	STATE	6	UTAH	UTAH	UTAH	WYOMING	VIRGINIA	6
7	COUNTY	7	SALT LAKE	UTAH	SALT LAKE	LINCOLN	FLUVANNA	7
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	8	220 16	220 16	220 16	243 16	224 02	8
9	PLANT CAPACITY (MW)	9	251.64	59.00	25.00	707.20	284.27	9
10	ANNUAL GENERATION (MMH) 3/	10	1,276,600	39,700	700	2,153,200	1,305,500	10
11	PLANT HEAT RATE (BTU/KWH) 3/	11	12,190	16,096		10,332	10,415	11
AIR QUALITY CONTROL DATA								
FUEL CONSUMPTION DATA (ANNUAL)								
12	COAL: CONSUMPTION (1,000 TONS)	12	58.11	9.39		1,226.27	536.40	12
13	AVERAGE HEAT CONTENT (BTU/LB)	13	12,461	12,407		9,218	12,527	13
14	AVERAGE SULFUR CONTENT (%)	14	.55	.55		.55	1.03	14
15	AVERAGE ASH CONTENT (%)	15	5.00	5.50		5.00	10.91	15
16	AVERAGE MOISTURE CONTENT (%)	16	8.00	7.70		22.00	5.44	16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	1,867.16		.09	6.91	17.80	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	152,813			140,000		18
19	AVERAGE SULFUR CONTENT (%)	19	.80			.20		19
20	GAS: CONSUMPTION (1,000 MCF)	20	1,470.32	447.70		141.84		20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	942	907		833		21
PLANT EQUIPMENT DATA								
22	BOILERS: - TOTAL NO.	22	3	1	2	3	4	22
23	- NO. OF WET BOTTOM	23						23
24	- NO. WITH FLY ASH REINJECTION	24					2	24
25	- NO. WITH MECHANICAL RECIPIRATORS	25						25
26	- NO. WITH ELECTROSTATIC RECIPIRATORS	26				2		26
27	- NO. WITH COMBINATION RECIPIRATORS 4/	27	2			1		27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	18.00	27.00	18.00	21.00	18.00	29
30	MECHANICAL RECIPIRATOR EFFICIENCY: DESIGN, LOW - HIGH	30				80.00	85.30	30
31	TESTED, LOW - HIGH	31					87.20	31
32	ESTIMATED, LOW - HIGH	32					70.40	32
33	ELECTROSTATIC/COMBINATION RECIPIRATOR EFFICIENCY 6/	33				80.00	70.00	33
34	DESIGN, LOW - HIGH	34	86.80	95.40	97.00	96.00		34
35	TESTED, LOW - HIGH	35	86.80	95.40	97.00	52.70		35
36	ESTIMATED, LOW - HIGH	36						36
37	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	37						37
38	TESTED, LOW - HIGH	38						38
39	ESTIMATED, LOW - HIGH	38						38
PLANT OPERATING DATA AND COST OF EQUIPMENT								
39	EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	39	.25	.01		12.06	14.93	39
40	SULFUR DIOXIDE (1,000 TONS)	40	5.64	.10		13.22	10.83	40
41	NITROGEN OXIDES (1,000 TONS)	41	4.93	.16		11.08	4.83	41
42	STACKS: - TOTAL NO.	42	3	1		3	4	42
43	- HEIGHT (FEET), LOWEST - HIGHEST 7/	43						43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 8/	44	250.00	160.00	225.00	200.00	250.00	44
45	TOTAL ASH: COLLECTED (1,000 TONS) 9/	45	2.81			52.12	49.00	45
46	SOLO (1,000 TONS) 10/	46						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 11/	48						48
49	EQUIVALENT AND EQUIVALENT OF ACID SOLO (1,000 TONS)	49						49
50	INSTALLED COSTS: MECHANICAL RECIPIRATORS (\$1,000)	50				316.33	356.00	50
51	ELECTROSTATIC RECIPIRATORS (\$1,000)	51				814.00		51
52	COMBINATION RECIPIRATORS (\$1,000) 4/	52	680.75					52
53	DESULFURIZATION SYSTEMS (\$1,000)	53						53
54	STACKS (\$1,000)	54	327.10	9.30	28.52	881.91	166.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	33.06			50.57	92.00	55
56	REVENUES FROM SALE OF ASH (\$1,000)	56						56
57	SULFUR PRODUCTION COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						58
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 12/	59	33.06			50.57	95.00	59
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60						60
WATER QUALITY CONTROL DATA								
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. III FOOTNOTES)	61	JORDAN	R. JORDAN	R. JORDAN	R. HAMS FORK	R. JAMES	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	5.00	60.00	60.00	7.00	244.60	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63		60.00	60.00		244.60	63
64	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REAPPORTED 13/	64	5.00		.52	7.00	2.10	64
65	MAX. TEMP. DURING PEAK MONTH (OEG. F.): AT DIVERSION, SUMMER - WINTER	65	AUG DEC	AUG DEC	AUG DEC	AUG DEC	JUL JAN	65
66	AT OUTFALL, SUMMER - WINTER	66					85.00 43.00	66
67	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	67					112.00	67
68	- WINTER	68		210.00	205.00		2,875.00	68
69		69		420.00	219.00		7,147.00	69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, DM 14/	70						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71	30.00	5.00	.05	.01	.31	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72		.30	.05	.02	8.50	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73					26.13	73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74					62.57	74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	36.00			6.00		75
76	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	76	YES	YES	YES	YES	YES	76
77	SEWAGE DISPOSAL: METHOD RS, ST, SW, OT 15/	77	RS	ST	PS	ST	ST	77
78	RECEIVING WATER BODY	78					R. JAMES	78
79	POND DISCHARGE 16/	79				8.40		79
80	SUSPENDED SOLIDS (RPM), BOILER BLOWDOWN - ASH SETTLING	80					7.50	80
81	VOLUME (1,000 CU.FT/YR), BOILER BLOWDOWN - ASH SETTLING	81					250.00	81
82	- ASH SETTLING	82				5,300.00		82
COOLING FACILITY DATA								
83	NO. OF UNITS AND CAPACITY (MM) USING 17/	83	1	15.00	1	25.00	4	83
84	ONCE THROUGH COOLING (FRESH)	84					284.28	84
85	ONCE THROUGH COOLING (SALINE)	85						85
86	COOLING POND(S)	86	3	251.64			710.80	86
87	COOLING TOWER(S)	87						87
88	COMBINATIONS 18/	88	1951 1955	1936	1929	1963 1971	1931 1958	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (OEG. F.), SMALLEST - LARGEST 19/	89	11.00	13.00		24.50	10.00	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	494.50	461.00	85.00	509.00	380.60	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91			85.00		387.60	91
CAPITAL COSTS OF COOLING FACILITIES								
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92		46.41	29.67		2,008.00	92
93	COOLING PONDS (\$1,000)	93						93
94	COOLING TOWERS (\$1,000)	94	1,805.55			2,582.70		94
ANNUAL COOLING WATER EXPENSES								
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	74.19		.11	34.40	22.00	95
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	53.65			18.00	5.00	96
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES								
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	47.00	3.20		39.60	19.00	97
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	10.23	.23	.10	22.86	3.00	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	VIRGINIA ELECTRIC & POWER CO.	VIRGINIA ELECTRIC & POWER CO.	VIRGINIA ELECTRIC & POWER CO.	VIRGINIA ELECTRIC & POWER CO.	VIRGINIA ELECTRIC & POWER CO.	1
2	NAME OF PLANT	2	CHESTERFIELD	MOUNT STORM	PORTSMOUTH	POSSUM POINT	REEVES AVENUE	2
3	UTILITY-PLANT CODE	3	525000-0300	525000-0700	525000-0900	525000-1000	525000-1100	3
4	STATE	4	VIRGINIA	WEST VIRGINIA	VIRGINIA	VIRGINIA	VIRGINIA	4
5	COUNTY	5	CHESTERFIELD	GRANT	CHESAPEAKE	PRINCE WILLIAM	NORFOLK	5
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	225 02	113 02	223 02	047 02	223 02	6
7	PLANT CAPACITY (MW)	7	1,484.44	1,140.48	649.63	490.99	100.00	7
8	ANNUAL GENERATION (MWH) 3/	8	1,570,800	1,013,400	3,251,700	3,127,400	145,300	8
9	PLANT HEAT RATE (BTU/KWH) 4/	9	10,443	9,825	10,380	10,603	14,748	9

AIR QUALITY CONTROL DATA

12	COAL: CONSUMPTION (1,000 TONS)	12	516.10	2,993.50	129.50	6.20	69.70	12
13	AVERAGE HEAT CONTENT (BTU/LB)	13	12,750	11,391	13,185	12,993	13,439	13
14	AVERAGE SULFUR CONTENT (%)	14	1.08	2.14	4.90	1.09	1.12	14
15	AVERAGE ASH CONTENT (%)	15	11.02	18.20	8.64	9.28	7.32	15
16	AVERAGE MOISTURE CONTENT (%)	16	4.74	6.40	4.52	4.67	5.01	16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	10,491.90	130.00	4,857.00	5,295.70	7.50	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	148,357	138,000	148,396	148,297	140,000	18
19	AVERAGE SULFUR CONTENT (%)	19	2.50	1.10	2.14	2.50	2.20	19
20	GAS: CONSUMPTION (1,000 MCF)	20						20
21	AVERAGE HEAT CONTENT (BTU/CU.F.T.)	21						21

PLANT EQUIPMENT DATA

22	BOILERS: - TOTAL NO.	22	6	2	4	4	2	22
23	- NO. OF WET BOTTOM	23					2	23
24	- NO. WITH FLY ASH REINJECTION	24			3			24
25	- NO. WITH MECHANICAL PRECIPITATORS	25	1					25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26	4	2	1	4	2	26
27	- NO. WITH COMBINATION PRECIPITATORS 1/	27	1					27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 2/	29	28.00	35.00	23.00	17.00	28.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30		85.00		85.00		30
31	TESTED, LOW - HIGH	31						31
32	ESTIMATED, LOW - HIGH	32		75.00		65.00		32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 3/ DESIGN, LOW - HIGH	33	90.00	99.50	96.00	96.00	92.00	33
34	TESTED, LOW - HIGH	34	90.25	96.40	85.00	88.50	95.00	34
35	EST., LOW - HIGH	35	66.00	80.00	90.00	70.00	90.00	35
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36						36
37	TESTED, LOW - HIGH	37						37
38	ESTIMATED, LOW - HIGH	38						38

PLANT OPERATING DATA AND COST OF EQUIPMENT

39	EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	39	13.09	58.31	2.63	3.35	3.33	39
40	SULFUR DIOXIDE (1,000 TONS)	40	98.93	125.56	31.16	44.55	1.54	40
41	NITROGEN OXIDES (1,000 TONS)	41	27.01	26.94	11.68	11.72	2.54	41
42	STACKS: - TOTAL NO.	42	6	2	4	4	2	42
43	- HEIGHT (FEET), LOWEST - HIGHEST 1/	43	200.00	419.00	350.00	175.00	200.00	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 2/	44	1.67		20	20	20	44
45	TOTAL ASH: COLLECTED (1,000 TONS) 3/	45	58.00	459.00	13.20	6.63	5.90	45
46	SOLD (1,000 TONS) 4/	46						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 5/	48						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50	16.00		479.00			50
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51	4,223.00	4,744.00	565.00	1,839.00	312.00	51
52	COMBINATION PRECIPITATORS (\$1,000) 6/	52	428.00					52
53	DESULFURIZATION SYSTEMS (\$1,000)	53						53
54	STACKS (\$1,000)	54	819.00	695.00	341.00	229.00	19.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	84.29	730.60	121.00		35.50	55
56	REVENUES FROM SALE OF ASH (\$1,000)	56						56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						58
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 7/	59	89.29	902.80	127.00	86.00	35.50	59
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60						60

WATER QUALITY CONTROL DATA

61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R JAMES	R STONY	R ELIZABETH	R POTOMAC	R ELIZABETH	61
62	AVERAGE RATE OF WITHDRAWAL (CFD)	62	1,633.00	1,126.00	794.70	464.72	100.40	62
63	AVERAGE RATE OF DISCHARGE (CFD)	63	1,633.00	1,125.00	794.70	464.45	100.40	63
64	AVERAGE RATE OF CONSUMPTION (CFD), CALCULATED - REPORTED 1/	64	14.04	1.00	6.83	4.00	2.26	64
65	PEAK LOAD MONTH: SUMMER - WINTER 2/	65	JUL	JAN	JUL	JAN	JUL	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	90.00	42.00	82.00	45.00	87.00	66
67	AT OUTFALL, SUMMER - WINTER	67	110.00	63.00	105.00	68.00	102.00	67
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFD): SUMMER - WINTER	68	2,700.00	21.00	108.00	21.00	3,909.00	68
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, 3/	69	1,306.00	202.00	52.00	21,935.00	40.00	69
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70	1.00	1.65	2.50	1.15	4.50	70
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71	3.35	2.50	7.75	390.20	1.00	71
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	72		265.11				72
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	73						73
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74	65.00	100.00	70.00			74
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75	YES	YES	YES	YES	YES	75
76	SEWAGE DISPOSAL: METHUEN PS, ST, SW, OT 4/	76	ST	ST	ST	ST	PS	76
77	RECEIVING WATER BODY	77	R JAMES	O COOLING POND	R POTOMAC	R POTOMAC		77
78	PDNO DISCHARGE 5/	78	7.00	8.50	7.60	7.50		78
79	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79	5.00	2,000.00	250.00	200.00		79
80	VOLUME (1,000 CU.FT./YR.), BOILER BLOWDOWN	80		315.24				80
81	- ASH SETTLING	81	576.00	3,130.00	126,144.00			81

COOLING FACILITY DATA

83	NO. OF UNITS AND CAPACITY (MW) USING:	ONCE THROUGH COOLING (FRESH)	83	6	1,484.44			4	491.00			83		
84		ONCE THROUGH COOLING (SALINE)	84					4	550.00		2	100.00	84	
85		COOLING POND(S)	85										85	
86		COOLING TOWER(S)	86										86	
87		COMBINATIONS 2/	87										87	
88	COOLING SYSTEM, YEAR OF INSTALLATION:	OLDEST SYSTEM - NEWEST SYSTEM	88			2	1,140.48						88	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 3/		89	1944	1969		1965	1953	1962	1948	1962	1941	1950	89
90		TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	12.20	23.50			14.00	17.90	17.90	22.00	9.40	11.00	90
91		TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91		1,633.56		1,126.00		794.70		543.30		100.40	91
					1,633.42				794.70		543.30		100.40	91

CAPITAL COSTS OF COOLING FACILITIES

92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	6,482.00		3,448.00	2,771.00	142.00	92
93	COOLING PONDS (\$1,000)	93		6,523.00				93
94	COOLING TOWERS (\$1,000)	94		380.00				94

ANNUAL COOLING WATER EXPENSES

95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	34.30	5.65	80.00	15.00	15.00	95
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	6.30	2.55	7.00	2.00		96

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES

97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	156.70	22.68	137.00	52.00	18.00	97
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	13.00	4.44	48.00	8.40	2.00	98

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10. INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	VIRGINIA ELECTRIC & POWER CO.	VIRGINIA ELECTRIC & POWER CO.	WASHINGTON P. POWER SUPPLY SYS.	WEST PENNSYLVANIA POWER CO.	WEST PENNSYLVANIA POWER CO.	1	
2	NAME OF PLANT	2	12TH STREET	YORKTOWN	HANFORD	ARMSTRONG	MILESBURG	2	
3	UTILITY-PLANT CODE	3	525000-1300	525000-1400	531500-0100	542000-0100	542000-0300	3	
4	STATE	4	VIRGINIA	VIRGINIA	WASHINGTON	PENNSYLVANIA	PENNSYLVANIA	4	
5	COUNTY	5	RICHMOND	YORK	BENTON	ARMSTRONG	CENTRE	5	
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	6	225 02	223 02	230 17	197 05	195 02	6	
7	PLANT CAPACITY (MW)	7	73,300	1,848,200	2,552,900	2,134,900	278,700	7	
8	ANNUAL GENERATION (MMH) 3/	8	15,006	10,201		10,491	12,699	8	
9	PLANT HEAT RATE (BTU/KWH) 4/	9						9	
AIR QUALITY CONTROL DATA									
FUEL CONSUMPTION DATA (ANNUAL)									
12	COAL: CONSUMPTION (1,000 TONS)	12	40.80	700.70		959.40	158.90	12	
13	AVERAGE HEAT CONTENT (BTU/LB)	13	13,432	12,909		11,667	11,110	13	
14	AVERAGE SULFUR CONTENT (%)	14	1.19	1.87		4.11	2.71	14	
15	AVERAGE ASH CONTENT (%)	15	7.84	8.17		16.73	20.27	15	
16	AVERAGE MOISTURE CONTENT (%)	16	4.89	6.45		4.04	5.50	16	
17	DIL: CONSUMPTION (1,000 BARRELS)	17	7.30			2.46	1.56	17	
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	140,000			139,000	139,000	18	
19	AVERAGE SULFUR CONTENT (%)	19	.20			.25	.25	19	
20	GAS: CONSUMPTION (1,000 MCF)	20		148.10				20	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21		1,158				21	
PLANT EQUIPMENT DATA									
22	BOILERS: - TOTAL NO.	22	2	2		2	2	22	
23	- NO. OF WET BOTTOM	23	2					23	
24	- NO. WITH FLY ASH REINJECTION	24						24	
25	- NO. WITH MECHANICAL PRECIPITATORS	25		1				25	
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26	2			2		26	
27	- NO. WITH COMBINATION PRECIPITATORS 5/	27		1			2	27	
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28	
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 6/	29	32.00	22.00		20.00	20.00	29	
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30		85.00				30	
31	TESTED, LOW - HIGH	31		84.60				31	
32	ESTIMATED, LOW - HIGH	32						32	
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/	33	90.00	99.40		95.00	90.00	33	
34	DESIGN, LOW - HIGH	34		98.00		96.30	96.40	34	
35	TESTED, LOW - HIGH	35					81.00	86.00	35
36	EST., LOW - HIGH	36						86.00	36
37	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	37							37
38	TESTED, LOW - HIGH	38							38
39	ESTIMATED, LOW - HIGH	38							38
PLANT OPERATING DATA AND COST OF EQUIPMENT									
39	EST. TOTAL ANNUAL PLANT EMISSIONS: 7/ PARTICULATE MATTER (1,000 TONS)	39	.21	4.21		5.46	4.54	39	
40	SULFUR DIOXIDE (1,000 TONS)	40	.96	25.68		77.29	8.44	40	
41	NITROGEN OXIDES (1,000 TONS)	41	.32	6.34		8.64	1.43	41	
42	STACKS: - TOTAL NO.	42	1	1		2	1	42	
43	- HEIGHT (FEET), LOWEST - HIGHEST 8/	43	150.00	325.00		230.00	250.00	43	
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 9/	44						44	
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	45	9.40	50.00		173.60	31.00	45	
46	SOLD (1,000 TONS) 11/	46				5.60		46	
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47	
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	48						48	
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49						49	
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50		203.00				50	
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51	191.00			1,338.00		51	
52	COMBINATION PRECIPITATORS (\$1,000) 4/	52		1,579.00			438.00	52	
53	DESULFURIZATION SYSTEMS (\$1,000)	53						53	
54	STACKS (\$1,000)	54	10.00	214.00		184.00	165.00	54	
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	30.00	206.90		128.60	56.30	55	
56	REVENUES FROM SALE OF ASH (\$1,000)	56						56	
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						57	
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						58	
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	59	30.00	253.90		128.60	57.70	59	
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60						60	
WATER QUALITY CONTROL DATA									
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	O KANAWHA CANAL	R YORK	R COLUMBIA	R ALLEGHENY	C SPRING	61	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	296.40	445.00	836.00	300.00	75.00	62	
63	AVERAGE RATE OF DISCHARGE (CFS)	63	256.40	445.00	836.00	299.95	74.99	63	
64	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 14/	64	2.55	3.83	7.19	2.58	.65	64	
65	PEAK LOAD MONTH: SUMMER - WINTER 15/	65	JUL	JAN	SEP	NOV	JUL	JAN	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	80.00	40.00	63.00	51.00	75.00	36.00	66
67	AT OUTFALL, SUMMER - WINTER	67	89.00	48.00	96.00	51.00	105.00	66.00	67
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68	4,400.00	1,730.00	74,400.00	7,640.00	140.00	68	
69	- WINTER	69	4,500.00	1,850.00	75,700.00	18,800.00		69	
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, OIL	70						70	
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71	.23	.18		.68	.03	71	
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	.58	193.88		43.52	.01	72	
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73				4.88		73	
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74				12.75		74	
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75		70.00		24.50		75	
76	OTHER IYES/NOI, COOLING WATER - BOILER MAKEUP	76		YES	YES	YES	YES	76	
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 16/	77	SW	ST	ST	ST	ST	77	
78	RECEIVING WATER BODY	78	R JAMES		O TILE FIELD			78	
79	POND DISCHARGE 17/	79		6.50			7.30	79	
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80						80	
81	VOLUME (1,000 CUFT/YR), BOILER BLOWDOWN - ASH SETTLING	81						81	
82	- ASH SETTLING	82		1,268.00			35,131.24	82	
COOLING FACILITY DATA									
83	NO. OF UNITS AND CAPACITY (MW) USING: 18/	83	4	2	2	2	2	83	
84	ONCE THROUGH COOLING (FRESH)	84	102.50	375.00	862.00	361.00	40.00	84	
85	ONCE THROUGH COOLING (SALINE)	85						85	
86	COOLING POND(S)	86						86	
87	COOLING TOWER(S)	87						87	
88	COMBINATIONS 19/	88	1919	1940	1957	1958	1959	88	
89	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	89	10.00	14.80	32.00	30.00	17.00	89	
90	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 20/	90	256.40	44.90	447.00	275.44	68.00	90	
91	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	91	296.40	490.00	1,250.00	1,250.00	277.00	91	
CAPITAL COSTS OF COOLING FACILITIES									
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	72.00	3,026.00	3,056.00	1,316.00	172.00	92	
93	COOLING PONDS (\$1,000)	93						93	
94	COOLING TOWERS (\$1,000)	94						94	
ANNUAL COOLING WATER EXPENSES									
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	3.00	58.00	35.91	68.00	21.00	95	
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96		7.00		2.20		96	
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES									
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	12.00	32.00	67.01	38.80	13.30	97	
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	.50	19.20	1.22	8.50	.70	98	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

NAME OF UTILITY	WEST PENNSYLVANIA POWER CO.	WEST PENNSYLVANIA POWER CO.	WEST PENNSYLVANIA POWER CO.	WEST TEXAS UTILITIES CO.	WEST TEXAS UTILITIES CO.
NAME OF PLANT	MITCHELL	SPRINGDALE	HATFIELD	ABILENE	CONCHO
UTILITY-PLANT CODE	542000-0400	542000-0500	542000-0600	543000-0100	543000-0200
STATE	PENNSYLVANIA	PENNSYLVANIA	PENNSYLVANIA	TEXAS	TEXAS
COUNTY	WASHINGTON	ALLEGHENY	GREENE	TAYLOR	TOM GREEN
AIR QUALITY CONTROL REGION NO. ^{1/} - WATER RESOURCE REGION NO. ^{2/}	197 05	197 05	197 05	210 12	218 12
PLANT CAPACITY (MW)	448.70	366.13	1,728.00	26.25	52.50
ANNUAL GENERATION (MWH) ^{3/}	2,514,100	1,351,900	6,021,040	2,700	8,700
PLANT HEAT RATE (BTU/KWH) ^{4/}	10,512	12,757	9,773	18,474	15,376

AIR QUALITY CONTROL DATA					
FUEL CONSUMPTION DATA (ANNUAL)					
COAL: CONSUMPTION (1,000 TONS)	12	1,045.80	645.60	2,317.30	12
AVERAGE HEAT CONTENT (BTU/LB)	13	12,624	13,329	12,450	13
AVERAGE SULFUR CONTENT (%)	14	2.59	2.12	3.04	14
AVERAGE ASH CONTENT (%)	15	10.94	8.03	13.74	15
AVERAGE MOISTURE CONTENT (%)	16	5.52	4.47	3.97	16
OIL: CONSUMPTION (1,000 BARRELS)	17		6.14	25.58	17
AVERAGE HEAT CONTENT (BTU/GAL)	18		139,000	139,000	18
AVERAGE SULFUR CONTENT (%)	19		.25	.25	19
GAS: CONSUMPTION (1,000 MCF)	20	22.93		47.05	20
AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,050		1,059	21

PLANT EQUIPMENT DATA					
BOILERS: - TOTAL NO.	22	4	5	3	4
- NO. OF WET BOTTOM	23		3		
- NO. WITH FLY ASH REINJECTION	24				
- NO. WITH MECHANICAL PRECIPITATORS	25				
- NO. WITH ELECTROSTATIC PRECIPITATORS	26	4	5	3	
- NO. WITH COMBINATION PRECIPITATORS ^{5/}	27				
- NO. WITH DESULFURIZATION SYSTEMS	28				
- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER ^{6/}	29	20.00	20.00	30.00	15.00
MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30				8.00
TESTED, LOW - HIGH	31				
ESTIMATED, LOW - HIGH	32				
ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY ^{6/} : DESIGN, LOW - HIGH	33	91.50	95.00	92.00	98.00
TESTED, LOW - HIGH	34		94.90	70.00	97.00
EST., LOW - HIGH	35		92.00	70.00	97.00
DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36				
TESTED, LOW - HIGH	37				
ESTIMATED, LOW - HIGH	38				

PLANT OPERATING DATA AND COST OF EQUIPMENT					
EST. TOTAL ANNUAL PLANT EMISSIONS ^{7/} : PARTICULATE MATTER (1,000 TONS)	39	7.78	6.70	2.71	39
SULFUR DIOXIDE (1,000 TONS)	40	53.09	26.83	138.10	40
NITROGEN OXIDES (1,000 TONS)	41	9.42	6.97	20.91	41
STACKS: - TOTAL NO.	42	4	5	2	4
- HEIGHT (FEET), LOWEST - HIGHEST ^{8/}	43	193.00	230.00	211.00	750.00
COMBUSTION CYCLE ADDITIVES (1,000 TONS) ^{9/}	44				100.00
TOTAL ASH: COLLECTED (1,000 TONS) ^{10/}	45	158.30	57.40	341.00	
SOLO (1,000 TONS) ^{11/}	46	60.70	8.10		
TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47				
EQUIVALENT OF ACID COLLECTED (1,000 TONS) ^{12/}	48				
ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	49				
INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50				
ELECTROSTATIC PRECIPITATORS (\$1,000)	51	1,306.00	1,604.00	4,776.00	
COMBINATION PRECIPITATORS (\$1,000) ^{13/}	52				
DESULFURIZATION SYSTEMS (\$1,000)	53				
STACKS (\$1,000)	54	246.00	100.00	2,203.00	
ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	195.30	141.80	277.50	
REVENUES FROM SALE OF ASH (\$1,000)	56	21.90	6.00		
SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57				
REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58				
TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) ^{14/}	59	317.40	146.80	280.52	
TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60	21.90	6.00		

WATER QUALITY CONTROL DATA					
COOLING WATER SOURCE (DOES R, L, S, C, W, H & O EXPL. IN FOOTNOTES)	61	R MONONGAHELA	R ALLEGHENY	R MONONGAHELA	L PHANTOM
AVERAGE RATE OF WITHDRAWAL (CFS)	62	700.00	650.00	1,115.00	.27
AVERAGE RATE OF DISCHARGE (CFS)	63	699.85	649.70	1,114.66	.11
AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED ^{15/}	64	6.02	.15	.34	.16
PEAK LOAD MONTH: SUMMER - WINTER	65	JUL	JAN	JUL	JAN
MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	80.00	38.00	80.00	32.00
AT OUTFALL, SUMMER - WINTER	67	99.00	57.00	95.00	47.00
AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER	68	5,670.00	9,080.00	4,790.00	88.00
- WINTER	69	11,200.00	23,000.00	10,100.00	
FREQUENCY OF TEMPERATURE MONITORING: C, H, D, OIS	70				
CHEMICAL ADDITIVES: PHOSPHATE (TONS)	71		.65		.10
CAUSTIC SODA (TONS)	72	.25	3.85	195.23	621.50
LIME (TONS)	73	1.81	47.37	3.75	12.28
ALUM (TONS)	74	.63	16.20	40.00	.90
CHLORINE (TONS)	75	37.50	5.45	16.00	1.16
OTHER (YES/NO)	76	YES	YES	YES	YES
SEWAGE DISPOSAL: METHOD PS, ST, SW, OT ^{16/}	77	ST	ST	OT	PS
RECEIVING WATER BODY	78		FRENCH DRAIN	MONONGAHELA	
POND DISCHARGE: PM, BOILER BLOWDOWN - ASH SETTLING	79		9.81	5.80	
SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80			107.00	
VOLUME (1,000 CU.FT./YR.), BOILER BLOWDOWN	81		385.00		
- ASH SETTLING	82		61,350.10	384,142.00	

COOLING FACILITY DATA					
NO. OF UNITS AND CAPACITY (TREATMENT ONCE THROUGH COOLING (FRESH)	83	3	474.00	8	414.14
ONCE THROUGH COOLING (SALINE)	84			1	576.00
COOLING PONDS (S)	85				
COOLING TOWERS (S)	86			1	576.00
COMBINATIONS ^{17/}	87			2	26.25
COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1948	1963	1920	1954
DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST ^{18/}	89	16.00	21.00	11.00	23.00
TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	648.00	741.00	1,812.00	64.10
TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91	656.00	776.00	1,112.00	

CAPITAL COSTS OF COOLING FACILITIES					
ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	1,193.00	2,263.00	5,624.00	
COOLING PONDS (\$1,000)	93				
COOLING TOWERS (\$1,000)	94			4,373.00	137.00

ANNUAL COOLING WATER EXPENSES					
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	159.00	221.00	248.70	
COST OF CHEMICAL ADDITIVES (\$1,000)	96	2.30	4.40	19.80	.20

ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES					
OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	57.00	109.00	47.30	
COST OF CHEMICAL ADDITIVES (\$1,000)	98	8.60	9.20	254.00	.10

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	WEST TEXAS UTILITIES CO.	WEST TEXAS UTILITIES CO.	WEST TEXAS UTILITIES CO.	WEST TEXAS UTILITIES CO.	WEST TEXAS UTILITIES CO.	1	
2		2						2	
3	NAME OF PLANT	3	LAKE PAULINE	OAK CREEK	PAINT CREEK	RIO PECOS	SAN ANGELO	3	
4	UTILITY-PLANT CODE	4	543000-0400	543000-0600	543000-0700	543000-0900	543000-1000	4	
5	STATE	5	TEXAS	TEXAS	TEXAS	TEXAS	TEXAS	5	
6	COUNTY	6	HARDEMAN	COKE	HASKELL	CROCKETT	TOM GREEN	6	
7	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	7	210	11	210	12	210	13	210
8	PLANT CAPACITY (MW)	8	44.50	81.60	241.60	136.50	100.85	8	
9	ANNUAL GENERATION (MWH) 3/	9	116,700	399,600	622,200	849,900	820,200	9	
10	PLANT HEAT RATE (BTU/KWH) 3/	10	12,956	10,133	11,045	10,547	9,505	10	
11		11						11	
AIR QUALITY CONTROL DATA									
FUEL CONSUMPTION DATA (ANNUAL)									
12	COAL: CONSUMPTION (1,000 TONS)	12						12	
13	AVERAGE HEAT CONTENT (BTU/LB)	13						13	
14	AVERAGE SULFUR CONTENT (%)	14						14	
15	AVERAGE ASH CONTENT (%)	15						15	
16	AVERAGE MOISTURE CONTENT (%)	16						16	
17	OIL: CONSUMPTION (1,000 BARRELS)	17						17	
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	148,784		137,934			18	
19	AVERAGE SULFUR CONTENT (%)	19	.59		.44			19	
20	GAS: CONSUMPTION (1,000 MCF)	20	1,392.00	3,700.00	6,244.00	8,866.60	7,353.60	20	
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,087	1,095	1,092	1,011	1,061	21	
PLANT EQUIPMENT DATA									
22	BOILERS: - TOTAL NO.	22	4	1	4	2	1	22	
23	- NO. OF WET BOTTOM	23						23	
24	- NO. WITH FLY ASH REINJECTION	24						24	
25	- NO. WITH MECHANICAL PRECIPITATORS	25						25	
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26						26	
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27						27	
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28	
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	8.00	11.00	5.00	8.00	8.00	29	
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30						30	
31	TESTED, LOW - HIGH	31						31	
32	ESTIMATED, LOW - HIGH	32						32	
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/ DESIGN, LOW - HIGH	33						33	
34	TESTED, LOW - HIGH	34						34	
35	EST., LOW - HIGH	35						35	
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36						36	
37	TESTED, LOW - HIGH	37						37	
38	ESTIMATED, LOW - HIGH	38						38	
PLANT OPERATING DATA AND COST OF EQUIPMENT									
39	EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	39						39	
40	SULFUR DIOXIDE (1,000 TONS)	40						40	
41	NITROGEN OXIDES (1,000 TONS)	41						41	
42	STACKS: - TOTAL NO.	42	2	1	4	2	1	42	
43	- HEIGHT (FEET), LOWEST - HIGHEST 7/	43	112.00	113.50	130.00	100.00	151.00	110.00	119.00
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 8/	44							
45	TOTAL ASH: COLLECTED (1,000 TONS) 9/	45							
46	SOLO (1,000 TONS) 10/	46							
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47							
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 11/	48							
49	ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	49							
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50							
51	ELECTROSTATIC PRECIPITATORS (\$1,000) 12/	51							
52	COMBINATION PRECIPITATORS (\$1,000) 13/	52							
53	DESULFURIZATION SYSTEMS (\$1,000)	53							
54	STACKS (\$1,000)	54		14.00	53.00	22.00	6.70		
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55							
56	REVENUES FROM SALE OF ASH (\$1,000)	56							
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57							
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58							
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 14/	59							
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60							
WATER QUALITY CONTROL DATA									
61	COOLING WATER: SOURCE (CODES A, L, B, C, H, M & E EXPL. IN FOOTNOTES)	61	L PAULINE	L OAK CREEK	LAKE STAMFORD	W	L NASHWORTHY	61	
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	76.42	72.90	147.00	3.44	145.00	62	
63	AVERAGE RATE OF DISCHARGE (CFS)	63	76.42	72.90	147.00	1.34	145.00	63	
64	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED 15/	64	.22	.59	.99	2.10	.79	64	
65	PEAK LOAD MONTH: SUMMER - WINTER	65	JUL DEC	JUL DEC	JUL DEC	JUL DEC	JUL DEC	65	
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	93.00 57.00	86.00 55.00	88.00 59.00	105.00 98.00	89.00 67.00	66	
67	AT OUTFALL, SUMMER - WINTER	67	102.00 68.00	107.00 80.00	104.00 79.00		104.00 86.00	67	
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	68						68	
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D 16/	69						69	
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70						70	
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71	.35	.21	.90	10.76	.26	71	
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	72	.35		.25	.24		72	
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	73		.29	12.38	1,190.00		73	
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74			2.30			74	
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75	6.00 YES	2.00 YES	6.00 YES	2.00 YES	7.15 YES	75	
76	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 17/	76	ST	ST	ST	ST	ST	76	
77	RECEIVING WATER BODY	77						77	
78	POND DISCHARGE 18/	78						78	
79	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79						79	
80	VOLUME (1,000 CU.FT/YR), BOILER BLOWDOWN - ASH SETTLING	80						80	
81		81						81	
82		82						82	
COOLING FACILITY DATA									
83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	83						83	
84	ONCE THROUGH COOLING (SALINE)	84						84	
85	COOLING PONDS(S)	85	2	1	4	2	1	85	
86	COOLING TOWER(S)	86						86	
87	COMBINATION 52/	87						87	
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1928 1951	1962	1953 1971	1959 1969	1965	88	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 19/	89	7.50 8.50	19.00	20.50	18.40 22.10	12.75	89	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90	179.70	90.00	303.00	164.00	174.00	90	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91						91	
CAPITAL COSTS OF COOLING FACILITIES									
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92						92	
93	COOLING PONDS (\$1,000)	93	192.00					93	
94	COOLING TOWERS (\$1,000)	94				242.00		94	
ANNUAL COOLING WATER EXPENSES									
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95						95	
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	1.00	.30	1.00	34.40	1.20	96	
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES									
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97						97	
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	6.00	.40	2.30	1.60	1.80	98	

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	WESTERN FARMERS ELECTRIC COOP.	WESTERN FARMERS ELECTRIC COOP.	WESTERN MASSACHUSETTS ELECTRIC CO.	WESTERN MASSACHUSETTS ELECTRIC CO.	WINNETKA, VILLAGE OF.	1
2		2						2
3		3						3
4	NAME OF PLANT	4	ANADARKO	MOORELAND	STATE STREET	WEST SPRINGFIELD	WINNETKA	4
5	UTILITY-PLANT CODE	5	544000-0100	544000-0300	545500-0900	545500-1100	551500-0100	5
6	STATE	6	OKLAHOMA	OKLAHOMA	MASSACHUSETTS	MASSACHUSETTS	ILLINOIS	6
7	COUNTY	7	CANON	WOODWARD	HAMPOEN	HAMPOEN	COOK	7
8	AIR QUALITY CONTROL REGION NO. 1 - WATER RESOURCE REGION NO. 2	8	189	11	042	01	042	01
9	PLANT CAPACITY (MW)	9	84.50	191.00	44.00	209.64	067	04
10	ANNUAL GENERATION (MWH) ±	10	249,000	1,073,900	8,000	1,146,400	68,200	25.50
11	PLANT HEAT RATE (BTU/KWH) ±	11	11,943	10,201	59,061	11,513	15,585	10
12		12						11
AIR QUALITY CONTROL DATA								
FUEL CONSUMPTION DATA (ANNUAL)								
12	COAL: CONSUMPTION (1,000 TONS)	12			13.87	64.96	15.33	12
13	AVERAGE HEAT CONTENT (BTU/LB)	13			13,188	10,875	12,000	13
14	AVERAGE SULFUR CONTENT (%)	14			1.32	2.61	1.15	14
15	AVERAGE ASH CONTENT (%)	15			10.33	19.65	6.57	15
16	AVERAGE MOISTURE CONTENT (%)	16			3.48	6.55	10.00	16
17	OIL: CONSUMPTION (1,000 BARRELS)	17			17.07	1,311.20		17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	144,323		149,000	147,098		18
19	AVERAGE SULFUR CONTENT (%)	19			2.28	1.78		19
20	GAS: CONSUMPTION (1,000 MCF)	20	2,839.15	10,341.73		3,228.20	725.20	20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,046	1,059		1,000	1,040	21
PLANT EQUIPMENT DATA								
22	BOILERS: - TOTAL NO.	22	3	2	16	3	5	22
23	- NO. OF WET BOTTOM	23						23
24	- NO. WITH FLY ASH REINJECTION	24			12		1	24
25	- NO. WITH MECHANICAL PRECIPITATORS	25			12		1	25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26				3		26
27	- NO. WITH COMBINATION PRECIPITATORS	27						27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER	29	7.00	20.00	9.00	30.00	20.00	23.00
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30					30.00	91.80
31	TESTED, LOW - HIGH	31						
32	ESTIMATED, LOW - HIGH	32						
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	33				95.00	97.50	
34	TESTED, LOW - HIGH	34				96.41	98.81	
35	ESTIMATED, LOW - HIGH	35				65.00	70.00	
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36						
37	TESTED, LOW - HIGH	37						
38	ESTIMATED, LOW - HIGH	38						
PLANT OPERATING DATA AND COST OF EQUIPMENT								
39	EST. TOTAL ANNUAL PLANT EMISSIONS: PARTICULATE MATTER (1,000 TONS)	39				3.33		28
40	SULFUR DIOXIDE (1,000 TONS)	40				11.15		35
41	NITROGEN OXIDES (1,000 TONS)	41				4.11		26
42	STACKS: - TOTAL NO.	42	3	2	8	3	1	42
43	- HEIGHT (FEET), LOWEST - HIGHEST	43	101.00	111.50	125.00	153.50	42.00	210.00
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS)	44					180.00	223.00
45	TOTAL ASH: COLLECTED (1,000 TONS)	45					12.30	99
46	SOLD (1,000 TONS)	46					1.18	
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS)	48						
49	ELEMENTAL AND EQUIVALENT OF ACID SOLD (1,000 TONS)	49						
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50				144.00		9.00
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51					634.00	
52	COMBINATION PRECIPITATORS (\$1,000)	52						
53	DESULFURIZATION SYSTEMS (\$1,000)	53						
54	STACKS (\$1,000)	54						
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55				72.00	634.00	111.00
56	REVENUES FROM SALE OF ASH (\$1,000)	56				1.50	16.25	1,327.07
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57					23	
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000)	59				1.50	16.24	1,327.07
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60					23	
WATER QUALITY CONTROL DATA								
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R WASHITA	W	R CONNECTICUT	R CONNECTICUT	L MICHIGAN	61
62	AVERAGE RATE OF WITHDRAWAL (CFS)	62	.90	2.96	10.00	307.00	31.10	62
63	AVERAGE RATE OF DISCHARGE (CFS)	63	.13	2.44	10.00	307.00	31.10	63
64	AVERAGE RATE OF CONSUMPTION (CFS), CALCULATED - REPORTED	64	.76	2.52	.09	2.64	.27	64
65	PEAK LOAD MONTH: SUMMER - WINTER	65	JUL	DEC	JUL	DEC	JUL	DEC
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	95.00	78.00	88.00	60.00	76.00	34.00
67	AVE. FLOW IN RECEIVING BODY DURING PEAK MONTH (CFS): SUMMER - WINTER	67	.32	.52	.38	5,000.00	102.00	59.00
68	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, M	68	.12	.38	.38	10,250.00	10,250.00	
69	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	69	7.00	.15	.08	.60	4.84	3.57
70	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	70		.08	.08		7.98	2.75
71	LIME (TONS), COOLING WATER - BOILER MAKEUP	71						
72	ALUM (TONS), COOLING WATER - BOILER MAKEUP	72						
73	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	73	5.18	7.15			27.97	
74	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	74	YES	YES	YES	YES	YES	YES
75	SEWAGE DISPOSAL: METHOD PS, ST, SW, OTM	75	PS	ST	PS	PS	PS	PS
76	RECEIVING WATER BODY	76						
77	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	77					7.20	8.20
78	SUSPENDED SOLIDS (PPH), BOILER BLOWDOWN - ASH SETTLING	78						
79	VOLUME (1,000 CU.FT/YR), BOILER BLOWDOWN	79					1,200.00	
80	BOILER BLOWDOWN - ASH SETTLING	80						
81		81						
82		82					445.50	
COOLING FACILITY DATA								
83	NO. OF UNITS AND CAPACITY (MW) USING: ONCE THROUGH COOLING (FRESH)	83			2	44.00	3	209.64
84	ONCE THROUGH COOLING (SALINE)	84					4	25.50
85	COOLING PONDS	85						
86	COOLING TOWER(S)	86	3	84.50	2	191.00		
87	COMBINATIONS	87						
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1953	1959	1964	1968	1918	1921
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST	89	12.00	16.00	15.00	17.00	1949	1957
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFS)	90		155.80		253.96	20.00	21.85
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFS)	91					241.70	80.74
CAPITAL COSTS OF COOLING FACILITIES								
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92					1,188.00	254.00
93	COOLING PONDS (\$1,000)	93						
94	COOLING TOWERS (\$1,000)	94		245.78	401.40			
ANNUAL COOLING WATER EXPENSES								
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95				3.00	39.16	15.40
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96		10.60	31.00		7.24	
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES								
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97				1.50	27.81	5.30
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98		1.50	2.90	1.00	6.02	8.88

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	WISCONSIN	WISCONSIN	WISCONSIN	WISCONSIN	WISCONSIN	1
2		2	ELECTRIC POWER	ELECTRIC POWER	ELECTRIC POWER	ELECTRIC POWER	ELECTRIC POWER	2
3		3	CO.	CO.	CO.	CO.	CO.	3
4	NAME OF PLANT	4	COMMERCE	LAKESIDE	NORTH OAK CREEK	PORT WASHINGTON	SOUTH OAK CREEK	4
5	UTILITY-PLANT CODE	5	553000-0100	553000-0300	553000-0400	553000-0500	553000-0600	5
6	STATE	6	WISCONSIN	WISCONSIN	WISCONSIN	WISCONSIN	WISCONSIN	6
7	COUNTY	7	MILWAUKEE	MILWAUKEE	MILWAUKEE	OZAUKEE	MILWAUKEE	7
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	8	239	04	239	04	239	04
9	PLANT CAPACITY (MM)	9	35.00	310.00	500.00	400.00	1,192.00	9
10	ANNUAL GENERATION (MWH) 2/	10	153,700	577,300	1,840,800	1,377,700	5,619,600	10
11	PLANT HEAT RATE (BTU/KWH) 2/	11	13,859	16,116	10,302	11,636	9,463	11
AIR QUALITY CONTROL DATA								
FUEL CONSUMPTION DATA (ANNUAL)								
12	COAL: CONSUMPTION (1,000 TONS)	12			829.96	681.84	2,305.47	12
13	AVERAGE HEAT CONTENT (BTU/LB)	13			11,388	11,756	11,453	13
14	AVERAGE SULFUR CONTENT (%)	14			2.09	2.98	2.08	14
15	AVERAGE ASH CONTENT (%)	15			9.97	11.89	9.99	15
16	AVERAGE MOISTURE CONTENT (%)	16			11.00	7.89	11.00	16
17	OIL: CONSUMPTION (1,000 BARRELS)	17	26.82	510.97	10.97		69.24	17
18	AVERAGE HEAT CONTENT (BTU/GAL)	18	135,296	134,310	133,586		133,392	18
19	AVERAGE SULFUR CONTENT (%)	19	.45	.34	.30		.30	19
20	GAS: CONSUMPTION (1,000 MCF)	20	2,201.95	6,267.92				20
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,036	1,025				21
PLANT EQUIPMENT DATA								
22	BOILERS: - TOTAL NO.	22	1	20	4	5	4	22
23	- NO. OF WET BOTTOM	23						23
24	- NO. WITH FLY ASH REINJECTION	24						24
25	- NO. WITH MECHANICAL PRECIPITATORS	25						25
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26			4	5	4	26
27	- NO. WITH COMBINATION PRECIPITATORS 2/	27						27
28	- NO. WITH DESULFURIZATION SYSTEMS	28						28
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST 2/	29	10.00	10.00	20.00	28.00	30.00	29
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30						30
31	TESTED, LOW - HIGH	31						31
32	ESTIMATED, LOW - HIGH	32						32
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	33			99.00	99.50	99.10	99.20
34	TESTED, LOW - HIGH	34			98.40	99.50	98.50	99.70
35	EST., LOW - HIGH	35			96.60	97.30	98.80	99.20
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36						
37	TESTED, LOW - HIGH	37						
38	ESTIMATED, LOW - HIGH	38						
PLANT OPERATING DATA AND COST OF EQUIPMENT								
39	EST. TOTAL ANNUAL PLANT EMISSIONS: 2/ PARTICULATE MATTER (1,000 TONS)	39		.09	1.61	.50	36.66	39
40	SULFUR DIOXIDE (1,000 TONS)	40	.04	.58	34.01	39.82	94.06	40
41	NITROGEN OXIDES (1,000 TONS)	41	.49	2.35	6.25	5.11	19.42	41
42	STACKS: - TOTAL NO.	42	1	2	2	2	2	42
43	- HEIGHT (FEET), LOWEST - HIGHEST 2/	43	300.70	231.00	250.25	350.25	505.17	43
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 2/	44		253.23	250.25	350.25	505.17	44
45	TOTAL ASH: COLLECTED (1,000 TONS) 10/	45			97.90		96.20	45
46	SOLO (1,000 TONS) 11/	46						46
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47						47
48	EQUIVALENT OF ACID COLLECTED (1,000 TONS) 12/	48						48
49	ELEMENTAL AND EQUIVALENT OF ACID SOLO (1,000 TONS)	49						49
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50						50
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51			2,713.00		2,517.00	51
52	COMBINATION PRECIPITATORS (\$1,000) 2/	52						52
53	DESULFURIZATION SYSTEMS (\$1,000)	53						53
54	STACKS (\$1,000)	54	120.00	231.00	246.00	763.00	971.00	54
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55			386.50	515.90	573.50	55
56	REVENUES FROM SALE OF ASH (\$1,000)	56					4.00	56
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57						57
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58						58
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	59			386.50	515.90	573.50	59
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60					4.00	60
WATER QUALITY CONTROL DATA								
61	COOLING WATER: SOURCE (CODES R, L, B, C, W, M & O EXPL. IN FOOTNOTES)	61	R MILWAUKEE	L MICHIGAN	L MICHIGAN	L MICHIGAN	L MICHIGAN	61
62	AVERAGE RATE OF WITHDRAWAL (CFD)	62	48.10	392.50	606.30	599.30	1,467.90	62
63	AVERAGE RATE OF DISCHARGE (CFD)	63	47.10	384.60	594.20	587.20	1,438.50	63
64	AVERAGE RATE OF CONSUMPTION (CFD), CALCULATED - REPORTED 14/	64	.41	1.00	7.90	5.21	12.00	64
65	PEAK LOAD MONTH: JUL	65	75.00	36.00	66.00	41.00	58.00	65
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	82.00	42.00	78.00	53.00	65.00	66
67	AT OUTFALL, SUMMER - WINTER	67						67
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFD): SUMMER	68	411.00					68
69	- WINTER	69	532.00					69
70	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, DIS/	70						70
71	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	71	1.50	4.25	5.85	5.00	16.65	71
72	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	72	198.00		62.92	65.00	179.08	72
73	LIME (TONS), COOLING WATER - BOILER MAKEUP	73						73
74	ALUM (TONS), COOLING WATER - BOILER MAKEUP	74		.15				74
75	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	75	2.98	2.63	15.60	1.40	44.40	75
76	OTHER IYES/NOI, COOLING WATER - BOILER MAKEUP	76						76
77	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 15/	77	PS	PS	OT	PS	OT	77
78	RECEIVING WATER BODY	78						78
79	POND DISCHARGE: PH, BOILER BLOWDOWN - ASH SETTLING	79	6.50	10.10	6.90	6.80	7.50	79
80	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	80			200.00	40.00	15.00	80
81	VOLUME (1,000 CU.FT./YR), BOILER BLOWDOWN	81	242.00	740.00	293.40	128.00	631.60	81
82	- ASH SETTLING	82				127,144.83		82
COOLING FACILITY DATA								
83	NO. OF UNITS AND CAPACITY (MM) USING: ONCE THROUGH COOLING (FRESH)	83	1	8	4	5	4	83
84	ONCE THROUGH COOLING (SALINE)	84	35.00	280.00	500.00	400.00	1,170.00	84
85	COOLING POND(S)	85						85
86	COOLING TOWER(S)	86						86
87	COMBINATIONS 21/	87						87
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1941	1920	1930	1953	1957	88
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F), SMALLEST - LARGEST 22/	89	10.50	7.50	10.00	9.00	7.50	89
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFD)	90	85.00	1,070.00	980.00	1,225.00	1,760.00	90
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFD)	91	85.00	1,070.00	980.00	1,225.00	1,760.00	91
CAPITAL COSTS OF COOLING FACILITIES								
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	219.00	557.00	1,814.00	697.00	1,640.00	92
93	COOLING PONDS (\$1,000)	93						93
94	COOLING TOWERS (\$1,000)	94						94
ANNUAL COOLING WATER EXPENSES								
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	15.30	110.60	120.40	122.40	233.10	95
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	2.30	2.10	8.30	1.10	23.70	96
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES								
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	63.80	7.60	10.10	11.90	28.40	97
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	21.40	1.20	11.00	10.80	31.30	98

99 ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	1	WISCONSIN	WISCONSIN	WISCONSIN POWER &	WISCONSIN POWER &	WISCONSIN POWER &					
2		2	ELECTRIC POWER	ELECTRIC POWER	LIGHT CO.	LIGHT CO.	LIGHT CO.					
3		3	CO.	CO.								
4	NAME OF PLANT	4	VALLEY	POINT BEACH	BLACKHAWK	EDGEWATER	NELSON DEWEY					
5	UTILITY-PLANT CODE	5	553000-0700	553000-0800	554000-0200	554000-0300	554000-0600					
6	STATE	6	WISCONSIN	WISCONSIN	WISCONSIN	WISCONSIN	WISCONSIN					
7	COUNTY	7	MILWAUKEE	MANITOWOC	ROCK	SHEBOYGAN	GRANT					
8	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	8	239 04	237 04	073 07	237 04	068 07					
9	PLANT CAPACITY (MM)	9	272.00	523.80	50.00	477.00	227.20					
10	ANNUAL GENERATION (MMWH) 3/	10	1,118,300	1,636,800	221,000	2,652,900	1,286,100					
11	PLANT HEAT RATE (BTU/KWH) 3/	11	12,619	10,452	12,338	9,599	9,704					
AIR QUALITY CONTROL DATA												
FUEL CONSUMPTION DATA (ANNUAL)												
12	COAL: CONSUMPTION (1,000 TONS)	12	668.56		7.40	1,221.60	565.30					
13	AVERAGE HEAT CONTENT (BTU/LB)	13	11,613		11,137	10,615	11,036					
14	AVERAGE SULFUR CONTENT (%)	14	3.13		3.10	2.40	3.30					
15	AVERAGE ASH CONTENT (%)	15	12.50		8.78	9.08	9.66					
16	AVERAGE MOISTURE CONTENT (%)	16	8.53		12.65	15.26	12.81					
17	DIL: CONSUMPTION (1,000 BARRELS)	17				4.00	.30					
18	AVERAGE HEAT CONTENT (BTU/GAL)	18				140,000	140,000					
19	AVERAGE SULFUR CONTENT (%)	19				.33	.33					
20	GAS: CONSUMPTION (1,000 MCF)	20	167.91		2,522.50							
21	AVERAGE HEAT CONTENT (BTU/CU.FT.)	21	1,035		1,016							
PLANT EQUIPMENT DATA												
22	BOILERS: - TOTAL NO.	22	4		2	4	2					
23	- NO. OF WET BOTTOM	23				2	2					
24	- NO. WITH FLY ASH REINJECTION	24										
25	- NO. WITH MECHANICAL PRECIPITATORS	25			2							
26	- NO. WITH ELECTROSTATIC PRECIPITATORS	26	4			3						
27	- NO. WITH COMBINATION PRECIPITATORS 4/	27										
28	- NO. WITH DESULFURIZATION SYSTEMS	28										
29	- EXCESS AIR USED (%), LOWEST BOILER - HIGHEST BOILER 5/	29	20.00		10.00	12.00	15.00					
30	MECHANICAL PRECIPITATOR EFFICIENCY: DESIGN, LOW - HIGH	30			88.00							
31	TESTED, LOW - HIGH	31			88.00							
32	ESTIMATED, LOW - HIGH	32			80.00							
33	ELECTROSTATIC/COMBINATION PRECIPITATOR EFFICIENCY 6/	33				90.00	99.00					
34	DESIGN, LOW - HIGH	34	99.20	99.70		95.50	97.40					
35	TESTED, LOW - HIGH	35	98.90	99.00								
36	DESULFURIZATION SYSTEM EFFICIENCY: DESIGN, LOW - HIGH	36										
37	TESTED, LOW - HIGH	37										
38	ESTIMATED, LOW - HIGH	38										
PLANT OPERATING DATA AND COST OF EQUIPMENT												
39	EST. TOTAL ANNUAL PLANT EMISSIONS: 2/ PARTICULATE MATTER (1,000 TONS)	39	.75		.11	2.12	5.46					
40	SULFUR DIOXIDE (1,000 TONS)	40	41.01		.45	57.30	36.56					
41	NITROGEN OXIDES (1,000 TONS)	41	6.05		.56	32.25	15.55					
42	STACKS: - TOTAL NO.	42	2		1	3	1					
43	- HEIGHT (FEET), LOWEST - HIGHEST 7/	43	400.00		226.00	200.00	352.00					
44	COMBUSTION CYCLE ADDITIVES (1,000 TONS) 8/	44				360.00						
45	TOTAL ASH: COLLECTED (1,000 TONS) 9/	45	80.80		.60	105.80	38.20					
46	SOLD (1,000 TONS) 10/	46										
47	TOTAL SULFUR: ELEMENTAL COLLECTED (1,000 TONS)	47										
48	EQUIVALENT OF ACIO COLLECTED (1,000 TONS) 12/	48										
49	ELEMENTAL AND EQUIVALENT OF ACIO SOLD (1,000 TONS)	49										
50	INSTALLED COSTS: MECHANICAL PRECIPITATORS (\$1,000)	50			68.00							
51	ELECTROSTATIC PRECIPITATORS (\$1,000)	51	1,229.00			1,106.00						
52	COMBINATION PRECIPITATORS (\$1,000) 4/	52										
53	DESULFURIZATION SYSTEMS (\$1,000)	53										
54	STACKS (\$1,000)	54	766.00		50.00	474.00	185.00					
55	ASH COLLECTION AND DISPOSAL EXPENSES (\$1,000)	55	488.10		5.10	140.20	64.90					
56	REVENUES FROM SALE OF ASH (\$1,000)	56										
57	SULFUR PRODUCT COLLECTION AND DISPOSAL EXPENSES (\$1,000)	57										
58	REVENUES FROM SALE OF SULFUR PRODUCTS (\$1,000)	58										
59	TOTAL AIR QUALITY CONTROL EXPENSES (\$1,000) 13/	59	488.10		5.10	140.20	64.90					
60	TOTAL BYPRODUCT SALES REVENUES (\$1,000)	60										
WATER QUALITY CONTROL DATA												
61	COOLING WATER: SOURCE CODES R, L, B, C, D, M, A, Y, E, F, L, IN FOOT TEST	61	0 N. MEMOM. CNL	L MICHIGAN	R ROCK	L MICHIGAN	R MISSISSIPPI					
62	AVERAGE RATE OF WITHDRAWAL (CFPS)	62	153.60	657.8	91.20	294.00	209.00					
63	AVERAGE RATE OF DISCHARGE (CFPS)	63	150.50	644.6	91.2	294.0	209.00					
64	AVERAGE RATE OF CONSUMPTION (CFPS), CALCULATED - REPORTED 14/	64	1.32	5.66	.78	2.53	1.80					
65	PEAK LOAD MONTH: SUMMER - WINTER 15/	65	JUL OEC	JUL OEC	JUN OEC	JUN OEC	JUN OEC					
66	MAX. TEMP. DURING PEAK MONTH (DEG. F.): AT DIVERSION, SUMMER - WINTER	66	72.00	45.00	52.00	41.0	85.00					
67	AT OUTFALL, SUMMER - WINTER	67	88.00	72.00	75.00	78.00	85.00					
68	AVERAGE FLOW IN RECEIVING BODY DURING PEAK MONTH (CFPS): SUMMER - WINTER	68										
69	FREQUENCY OF TEMPERATURE MONITORING: C, H, O, D 16/	69	141.90		1,409.0		37,500.00					
70	CHEMICAL ADDITIVES: PHOSPHATE (TONS), COOLING WATER - BOILER MAKEUP	70										
71	CAUSTIC SODA (TONS), COOLING WATER - BOILER MAKEUP	71	5.70	.97	.21	2.95	.05					
72	LIME (TONS), COOLING WATER - BOILER MAKEUP	72	1,034.00	21.18	.95	.01	.05					
73	ALUM (TONS), COOLING WATER - BOILER MAKEUP	73		5.6								
74	CHLORINE (TONS), COOLING WATER - BOILER MAKEUP	74		2.0		5.0						
75	OTHER (YES/NO), COOLING WATER - BOILER MAKEUP	75	88.80	YES	.85	.13	YES					
76	SEWAGE DISPOSAL: METHOD PS, ST, SW, OT 17/	76	PS	YES	PS	YES	ST					
77	RECEIVING WATER BODY	77										
78	POND DISCHARGE 18/	78	7.30	L MICHIGAN	10.20	7.60	8.50					
79	SUSPENDED SOLIDS (PPM), BOILER BLOWDOWN - ASH SETTLING	79		.70	10.00		8.00					
80	VOLUME (1,000 CU.FT./YR), BOILER BLOWDOWN	80	1,700.00	237.00	120.00	430.00	75.00					
81		81				200,000.00	60,000.00					
82		82										
COOLING FACILITY DATA												
83	NO. OF UNITS AND CAPACITY (MM) USING: 20/ ONCE THROUGH COOLING (FRESH)	83	2	280.00	1	524.00	2	57.50	4	490.00	2	236.00
84	ONCE THROUGH COOLING (SALINE)	84										
85	COOLING POND(S)	85										
86	COOLING TOWER(S)	86										
87	COMBINATIONS 21/	87										
88	COOLING SYSTEM, YEAR OF INSTALLATION: OLDEST SYSTEM - NEWEST SYSTEM	88	1968	1969	1970	1946	1949	1931	1969	1960	1962	
89	DESIGN: TEMP. RISE ACROSS CONDENSERS (DEG. F.), SMALLEST - LARGEST 22/	89		31.80	19.30		12.00	11.00	15.00		15.00	
90	TOTAL RATE OF FLOW THROUGH ALL CONDENSERS (CFPS)	90		250.00	793.00		152.00		526.00		223.20	
91	TOTAL RATE OF WITHDRAWAL, ONCE THROUGH COOLING SYSTEMS (CFPS)	91		250.00	793.00		156.00		526.00		222.80	
CAPITAL COSTS OF COOLING FACILITIES												
92	ONCE THROUGH COOLING SYSTEMS (\$1,000)	92	857.00	5,710.00		56.00	300.00		300.00			
93	COOLING PONDS (\$1,000)	93										
94	COOLING TOWERS (\$1,000)	94										
ANNUAL COOLING WATER EXPENSES												
95	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	95	52.50	53.20		27.60	38.00		18.10			
96	COST OF CHEMICAL ADDITIVES (\$1,000)	96	47.40			.50	.10					
ANNUAL BOILER WATER MAKE-UP AND BLOWDOWN TREATMENT EXPENSES												
97	OPERATION AND MAINTENANCE EXPENSES (\$1,000)	97	143.80	31.70		5.70	13.00		13.10			
98	COST OF CHEMICAL ADDITIVES (\$1,000)	98	107.20	7.40		5.30	48.70		1.00			

ALL FOOTNOTES ARE SHOWN AT THE END OF THIS TABLE

TABLE 10, INDIVIDUAL PLANT DATA, 1971

1	NAME OF UTILITY	2	WISCONSIN POWER & LIGHT CO.	3	WISCONSIN PUBLIC SERVICE CORP.	4	WISCONSIN PUBLIC SERVICE CORP.	5	YANKEE ATOMIC ELECTRIC CO.	6		7		8		9		10		11	
2	NAME OF PLANT	3	ROCK RIVER	4	PULLIAM	5	WESTON	6	ROWE	7		8		9		10		11		12	
3	UTILITY-PLANT CODE	4	554000-0900	5	554500-1500	6	554500-2000	7	562500-0100	8		9		10		11		12		13	
4	STATE	5	WISCONSIN	6	WISCONSIN	7	WISCONSIN	8	MASSACHUSETTS	9		10		11		12		13		14	
5	COUNTY	6	ROCK	7	BROWN	8	MARATHON	9	FRANKLIN	10		11		12		13		14		15	
6	AIR QUALITY CONTROL REGION NO. 1/ - WATER RESOURCE REGION NO. 2/	7	073	8	07	9	237	10	04	11	238	12	07	13	042	14	01	15		16	
7	PLANT CAPACITY (MW)	8	150.00	9	392.50	10	135.00	11	185.00	12		13		14		15		16		17	
8	ANNUAL GENERATION (MWH) 2/	9	807,500	10	2,077,100	11	724,000	12	1,435,253	13		14		15		16		17		18	
9	PLANT HEAT RATE (BTU/KWH) 2/	10	10,503	11	11,122	12	10,970	13	11,996	14		15		16		17		18		19	
10		11		12		13		14		15		16		17		18		19		20	
11		12		13		14		15		16		17		18		19		20		21	
12		13		14		15		16		17		18		19		20		21		22	
13		14		15		16		17		18		19		20		21		22		23	
14		15		16		17		18		19		20		21		22		23		24	
15		16		17		18		19		20		21		22		23		24		25	
16		17		18		19		20		21		22		23		24		25		26	
17		18		19		20		21		22		23		24		25		26		27	
18		19		20		21		22		23		24		25		26		27		28	
19		20		21		22		23		24		25		26		27		28		29	
20		21		22		23		24		25		26		27		28		29		30	
21		22		23		24		25		26		27		28		29		30		31	
22		23		24		25		26		27		28		29		30		31		32	
23		24		25		26		27		28		29		30		31		32		33	
24		25		26		27		28		29		30		31		32		33		34	
25		26		27		28		29		30		31		32		33		34		35	
26		27		28		29		30		31		32		33		34		35		36	
27		28		29		30		31		32		33		34		35		36		37	
28		29		30		31		32		33		34		35		36		37		38	
29		30		31		32		33		34		35		36		37		38		39	
30		31		32		33		34		35		36		37		38		39		40	
31		32		33		34		35		36		37		38		39		40		41	
32		33		34		35		36		37		38		39		40		41		42	
33		34		35		36		37		38		39		40		41		42		43	
34		35		36		37		38		39		40		41		42		43		44	
35		36		37		38		39		40		41		42		43		44		45	
36		37		38		39		40		41		42		43		44		45		46	
37		38		39		40		41		42		43		44		45		46		47	
38		39		40		41		42		43		44		45		46		47		48	
39		40		41		42		43		44		45		46		47		48		49	
40		41		42		43		44		45		46		47		48		49		50	
41		42		43		44		45		46		47		48		49		50		51	
42		43		44		45		46		47		48		49		50		51		52	
43		44		45		46		47		48		49		50		51		52		53	
44		45		46		47		48		49		50		51		52		53		54	
45		46		47		48		49		50		51		52		53		54		55	
46		47		48		49		50		51		52		53		54		55		56	
47		48		49		50		51		52		53		54		55		56		57	
48		49		50		51		52		53		54		55		56		57		58	
49		50		51		52		53		54		55		56		57		58		59	
50		51		52		53		54		55		56		57		58		59		60	
51		52		53		54		55		56		57		58		59		60		61	
52		53		54		55		56		57		58		59		60		61		62	
53		54		55		56		57		58		59		60		61		62		63	
54		55		56		57		58		59		60		61		62		63		64	
55		56		57		58		59		60		61		62		63		64		65	
56		57		58		59		60		61		62		63		64		65		66	
57		58		59		60		61		62		63		64		65		66		67	
58		59		60		61		62		63		64		65		66		67		68	
59		60		61		62		63		64		65		66		67		68		69	
60		61		62		63		64		65		66		67		68		69		70	
61		62		63		64		65		66		67		68		69		70		71	
62		63		64		65		66		67		68		69		70		71		72	
63		64		65		66		67		68		69		70		71		72		73	
64		65		66		67		68		69		70		71		72		73		74	
65		66		67		68		69		70		71		72		73		74		75	
66		67		68		69		70		71		72		73		74		75		76	
67		68		69		70		71		72		73		74		75		76		77	
68		69		70		71		72		73		74		75		76		77		78	
69		70		71		72		73		74		75		76		77		78		79	
70		71		72		73		74		75		76		77		78		79		80	
71		72		73		74		75		76		77		78		79		80		81	
72		73		74		75		76		77		78		79		80		81		82	
73		74		75		76		77		78		79		80		81		82		83	
74		75		76		77		78		79		80		81		82		83		84	
75		76		77		78		79		80		81		82		83		84		85	
76		77		78		79		80		81		82		83		84		85		86	
77		78		79		80		81		82		83		84		85		86		87	
78		79		80		81		82		83		84		85		86		87		88	
79		80		81		82		83		84		85		86		87		88		89	
80		81		82		83		84		85		86		87		88		89		90	
81		82		83		84		85		86		87		88		89		90		91	
82		83		84		85		86		87		88		89		90		91		92	
83		84		85		86		87		88		89		90		91		92		93	
84		85		86		87		88		89		90		91		92		93		94	
85		86		87		88		89		90		91		92		93		94		95	
86		87		88		89		90		91		92		93		94		95		96	
87		88		89		90		91		92		93		94		95		96		97	
88		89		90		91		92		93		94		95		96		97		98	
89		90		91		92		93		94		95		96		97		98		99	
90		91		92		93		94		95		96		97		98		99		100	
91		92		93		94		95		96		97		98		99		100		101	
92		93		94		95		96		97		98		99		100		101		102	
93		94		95		96		97		98		99		100		101		102		103	
94		95		96		97		98		99		100		101		102		103		104	
95		96		97		98		99		100											

FOOTNOTES TO TABLE 10

- 1/ Tables 1B, 2B, 4B and 5B display Form 67 data as summarized by AQCR. See Appendix 3 for a map of these regions/numbers.
- 2/ Tables 6B, 7B, 8B and 9B display Form 67 data as summarized by WRR. See Appendix 4 for a map of these regions/numbers.
- 3/ Source: FPC Form #1
- 4/ Precipitator systems which include a mechanical and an electro-static precipitator in series.
- 5/ First number is for the boiler with the least excess air; Second number is for the boiler with the highest excess air.
- 6/ First number is for precipitator with lowest efficiency; Second number is for precipitator with highest efficiency.
- 7/ Line 39-41 figures computed by FPC. Method of computation described in Section I.
- 8/ Height of lowest and highest stack in the plant.
- 9/ May include a variety of fuel oil additives designed to reduce boiler corrosion and to improve combustion.
- 10/ Tonnage includes bottom ash and flyash as reported in Form 67. The sum of lines 45 and 39 does not necessarily equal the total ash content. (See discussion in Section I above.)
- 11/ Includes bottom ash and flyash.
- 12/ Figures computed by FPC. Method of computation described in Section I above.
- 13/ May include the "incremental cost" of premium (low-sulfur) fuels.
- 14/ An approximation of assumed average conditions obtained by use of the formula that consumption = (.0086) x (withdrawal), which may be derived as follows:

Average heat rate (1969)	10,447 Btu/kwh
In-plant and stack losses (15%)	1,567 Btu/kwh
Heat equivalent of generation	3,413 Btu/kwh
Heat given up in condenser	5,467 Btu/kwh
Heat dissipated by evaporation (50%)	2,734 Btu/kwh
Heat of evaporation	1,050 Btu/lb

Water evaporated (consumed)	2.6 lb/kwh
Temperature rise across the condenser	180F.
Flow through condenser (withdrawal)	304 lb/kwh
Ratio of consumption to withdrawal	.0086

15/ System peak power load month.

16/ C - continuously; H - hourly; D - daily; O - other.

17/ Major examples are: H_2SO_4 , Na_2SO_3 , Na_2SO_4 , NaCl, NH_3 and Morpholine.

18/ PS - Public Sewer; ST - Septic tank; SW - surface water body, such as river, lake, ocean; OT - other.

19/ Refers to the discharges from the Boiler Blowdown pond and the Ash Settling pond.

20/ "Unit" refers to a turbine-generator set; capacity refers to maximum nameplate generator rating. There may be a difference in the generating capacity shown on line 9 of Table 10 and the sum of the capacities shown in lines 83 through 87. Minor differences usually resulted when capacities reported in lines 83 through 87 were not the maximum nameplate ratings. Major differences occurred at plants with non-condensing units.

21/ Those units with a capability of using more than one cooling system.

22/ First number is for condenser with smallest temperature rise; second number is for condenser with highest temperature rise.

WATER BODY CODES for line No. 61 of the general table containing individual plant data (Table 10):

R-river L-lake B-bay C-creek W-well M-municipal O-other

APPENDIX 1 ALPHABETICAL INDEX OF PLANTS

PLANT NAME	UTILITY NAME	PAGE
ABBOTT	UNIVERSITY OF ILLINOIS	157
ABILENE	WEST TEXAS UTILITIES CO.	161
ABILENE	THE KANSAS POWER & LIGHT CO.	153
ACME	THE TOLEDO EDISON CO.	154
AGUA FRIA 2	SALT R. PROJ. AGR. IMPR. PWR. DIST.	129
ALAMITOS	SOUTHERN CALIFORNIA EDISON CO.	133
ALBANY	NIAGARA-MOHAWK POWER CORP.	102
ALBRIGHT	MONONGAHELA (ALLEGHENY) POWER CO.	96
ALEXANDRIA # 2	ALEXANDRIA ELEC. LIGHT & WATER WORKS	30
ALLEN	DUKE POWER CO.	60
ALLEN	TENNESSEE VALLEY AUTHORITY	142
ALMA	DAIRYLAND POWER COOPERATIVE	56
AMOS	APPALACHIAN POWER CO.	31
ANADARKO	WESTERN FARMERS ELECTRIC COOP.	163
ARAPAHOE	PUBLIC SERVICE CO. OF COLORADO	126
ARBUCKLE	OKLAHOMA GAS & ELECTRIC CO.	109
ARKWRIGHT	GEORGIA POWER CO.	68
ARMSTRONG	WEST PENNSYLVANIA POWER CO.	160
ARSENAL HILL	SOUTHWESTERN ELECTRIC POWER CO.	139
ARTHUR KILL	CONSOLIDATED EDISON CO. OF NY	52
ASBURY	EMPIRE DIST. ELECTRIC CO.	64
ASHEVILLE	CAROLINA POWER & LIGHT CO.	38
ASHLEY	UNION ELECTRIC CO.	155
ASHTABULA	CLEVELAND ELEC. ILLUM. CO	46
ASTORIA	CONSOLIDATED EDISON CO. OF NY	52
ATKINSON	GEORGIA POWER CO.	69
AURORA	MINNESOTA POWER & LIGHT CO.	94
AVON	PACIFIC GAS & ELECTRIC CO.	112
AVON LAKE	CLEVELAND ELEC. ILLUM. CO	47
AVON PARK	FLORIDA POWER CORP.	64
BAILEY	ARKANSAS ELECTRIC COOP CORP.	32
BAILLY	NORTHERN INDIANA PUBLIC SERVICE CO.	103
BALDWIN	ILLINOIS POWER CO.	77
BARBADOES	PHILADELPHIA ELECTRIC CO.	118
BARRETT	LONG ISLAND LIGHTING CO.	88
BARRY	ALABAMA POWER CO.	29
BARTOW	FLORIDA POWER CORP.	66
BATES	CENTRAL P&L CO.	42
BAY SHORE	THE TOLEDO EDISON CO.	154
BAYBORO	FLORIDA POWER CORP.	65

		PAGE
BECKJORD	THE CINCINNATI GAS & ELECTRIC CO.	148
BELLE ISLE	OKLAHOMA GAS & ELECTRIC CO.	109
BENNING	POTOMAC ELECTRIC POWER CO.	120
BERGEN	PUBLIC SERVICE ELECTRIC & GAS CO.	124
BERTRON	HOUSTON LIGHTING & POWER CO.	76
BIG BEND	TAMPA ELECTRIC CO.	141
BIG BROWN	TEXAS POWER AND LIGHT CO.	146
BIG ROCK POINT	CONSUMERS POWER CO.	55
BIG SANDY	KENTUCKY POWER CO.	86
BIG SIOUX	IOWA PUBLIC SERVICE CO.	82
BIRD	THE MONTANA POWER CO.	153
BIRDSALL	COLO SPRINGS P&L DEPT.	47
BLACK DOG	NORTHERN STATES POWER CO. (MINN.)	103
BLACKHAWK	WISCONSIN POWER & LIGHT CO.	165
BLOUNT	MADISON GAS & ELECTRIC CO.	92
BLUE VALLEY	CITY P & L DEPT. INDEPENDENCE MO.	45
BLUFFS	NEBRASKA PUB PWR DISTRICT	56
BONIN	CITY OF LAFAYETTE UTIL. SYSTEM	45
BOONE	IOWA ELECTRIC LIGHT & POWER CO.	80
BOSWELL	MINNESOTA POWER & LIGHT CO.	94
BOWEN	GEORGIA POWER CO.	70
BRAUNIG	CITY P. S. BD. SAN ANTONIO	46
BRAYTON	NEW ENGLAND POWER CO.	100
BREED	INDIANA & MICHIGAN ELECTRIC CO.	78
BREMO BLUFF	VIRGINIA ELECTRIC & POWER CO.	158
BRIDGEPORT	IOWA SO. UTIL. CO.	83
BRIDGEPORT HARBOR	THE UNITED ILLUMINATING CO.	155
BROADWAY	PASADENA LIGHT & POWER DEPT.	115
BROWN	MISSISSIPPI POWER & LIGHT CO.	96
BROWN	KENTUCKY UTILITIES CO.	87
BRUNNER ISLAND	PENNSYLVANIA POWER & LIGHT CO.	117
BUCK	DUKE POWER CO.	60
BULL RUN	TENNESSEE VALLEY AUTHORITY	142
BURBANK	BURBANK PUBLIC SERVICE DEPT	37
BURGER	OHIO EDISON CO.	107
BURLINGTON	PUBLIC SERVICE ELECTRIC & GAS CO.	124
BURLINGTON	IOWA SO. UTIL. CO.	83
BUZZARD POINT	POTOMAC ELECTRIC POWER CO.	121
CABIN CREEK	APPALACHIAN POWER CO.	30
CAHOKIA	UNION ELECTRIC CO.	156
CALUMET	COMMONWEALTH EDISON CO.	49
CAMEO	PUBLIC SERVICE CO. OF COLORADO	126
CAMPBELL	CONSUMERS POWER CO.	55
CANADYS	SOUTH CAROLINA ELECTRIC & GAS CO.	132
CANAL	THE CANAL ELECTRIC CO.	147
CANAL	LOUISVILLE GAS & ELECTRIC CO.	91
CANE RUN	LOUISVILLE GAS & ELECTRIC CO.	91

	PAGE
CANNON	98
CAPE FEAR	38
CAPE KENNEDY	66
CARBON	157
CARDINAL	38
CARLSBAD	137
CAYUGA	123
CEDAR BAYOU	76
CHALK POINT	121
CHEROKEE	126
CHESTER	118
CHESTERFIELD	159
CHESWICK	63
CHICKASAW	29
CHOLLA	31
CHOUTEAU	70
CIMMARRON RIVER	43
CLARK	44
CLARK	99
CLARKE	75
CLEARY	141
CLIFFSIDE	60
CLIFTY CREEK	78
CLINCH RIVER	30
COBB	54
COFFEEN	39
COLBERT A	142
COLBERT B	142
COLEMAN	35
COLFAX	62
COLLIN	146
COMAL	91
COMMERCE	164
CONCHO	161
CONEMAUGH	117
CONESVILLE	48
CONNERS CREEK	149
CONTRA COSTA	112
COOL WATER	133
COOPER	63
CORETTE	153
COUCH	33
COUGHLIN	41
COUNCIL BLUFFS	82
CRANE	34
CRAWFORD	93
CRAWFORD	49
CRIST	71
CROMBY	118
CROSSCUT	129
CRYSTAL RIVER	65
NEW BEDFORD GAS & EDISON LIGHT CO.	
CAROLINA POWER & LIGHT CO.	
FLORIDA POWER & LIGHT CO.	
UTAH POWER & LIGHT CO.	
CARDINAL OPERATING CO.	
SOUTHWEST PUBLIC SERVICE CO.	
PUBLIC SERVICE CO. OF INDIANA INC.	
HOUSTON LIGHTING & POWER CO.	
POTOMAC ELECTRIC POWER CO.	
PUBLIC SERVICE CO. OF COLORADO	
PHILADELPHIA ELECTRIC CO.	
VIRGINIA ELECTRIC & POWER CO.	
DUQUESNE LIGHT CO.	
ALABAMA POWER CO.	
ARIZONA PUBLIC SERVICE CO.	
GRAND RIVER DAM AUTHORITY	
CENTRAL TELE & UTIL. CORP - W PWR DIV.	
CENTRAL TELE & UTIL. CORP. - SO. COLO. PWR. DIV.	
NEVADA POWER CO.	
HOUSTON LIGHTING & POWER CO.	
TAUNTON MUNICIPAL LIGHTING PLT.	
DUKE POWER CO.	
INDIANA-KENTUCKY ELECTRIC CORP.	
APPALACHIAN POWER CO.	
CONSUMERS POWER CO.	
CENTRAL ILLINOIS P.S. CO.	
TENNESSEE VALLEY AUTHORITY	
TENNESSEE VALLEY AUTHORITY	
BIG RIVERS RURAL ELECTRIC COOP	
DUQUESNE LIGHT CO.	
TEXAS POWER & LIGHT CO.	
LOWER COLORADO RIVER AUTH.	
WISCONSIN ELECTRIC POWER CO.	
WEST TEXAS UTILITIES CO.	
PENNSYLVANIA ELECTRIC CO.	
COLUMBUS & S OHIO ELECTRIC CO.	
THE DETROIT EDISON CO.	
PACIFIC GAS & ELECTRIC CO.	
SOUTHERN CALIFORNIA EDISON CO.	
EAST KENTUCKY RURAL ELECTRIC COOP,	
THE MONTANA POWER CO.	
ARKANSAS POWER & LIGHT CO.	
CENTRAL LOUISIANA ELECTRIC CO.	
IOWA POWER & LIGHT CO.	
BALTIMORE GAS & ELECTRIC CO.	
METRO EDISON CO.	
COMMONWEALTH EDISON CO.	
GULF POWER CO.	
PHILADELPHIA ELECTRIC CO.	
SALT R. PROJ. AGR. IMPR. PWR. DIST.	
FLORIDA POWER CORP.	

	PAGE
CULLEY	136
CUNNINGHAM	137
CUTLER	66
DALE	63
DALLAS	57
DALLMAN	140
DAN RIVER	60
DANSKAMMER	39
DECKER CREEK	45
DEEPWATER	58
DEEPWATER	75
DELAWARE	119
DELAWARE CITY	59
DELRAY	150
DELTA	95
DEMOSS PETRIE	154
DENTON	59
DENVER CITY	137
DES MOINES #2	82
DEVON	148
DICKERSON	121
DIXON	49
DRAKE	47
DRESDEN	50
DRESSER	122
DUBUQUE	79
DUNKIRK	102
EAGLE MOUNTAIN	144
EAST LAKE	47
EAST PLANT	137
EAST RIVER	53
EATON	95
ECKERT	88
EDDYSTONE	119
EDGAR	36
EDGE MOOR	59
EDGEWATER	165
EDGEWATER	106
EDMOND	140
EDWARDS	40
EDWARDSPORT	123
EL CENTRO	78
EL SEGUNDO	134
SOUTHERN INDIANA G. E. CO.	
SOUTHWEST PUBLIC SERVICE CO.	
FLORIDA POWER & LIGHT CO.	
EAST KENTUCKY RURAL ELECTRIC COOP.	
DALLAS POWER & LIGHT CO.	
SPRINGFIELD WATER LIGHT & POWER DEPT.	
DUKE POWER CO.	
CENTRAL HUDSON GAS & ELECTRIC CO.	
CITY OF AUSTIN ELECTRIC DEPT.	
ATLANTIC CITY ELECTRIC CO.	
HOUSTON LIGHTING & POWER CO.	
PHILADELPHIA ELECTRIC CO.	
DELMARVA POWER & LIGHT CO.	
THE DETROIT EDISON CO.	
MISSISSIPPI POWER & LIGHT CO.	
THE TUCSON GAS & ELECTRIC CO.	
DENTON, CITY OF	
SOUTHWEST PUBLIC SERVICE CO.	
IOWA POWER & LIGHT CO.	
THE CONNECTICUT LIGHT & POWER CO.	
POTOMAC ELECTRIC POWER CO.	
COMMONWEALTH EDISON CO.	
COLO SPRINGS P&L DEPT.	
COMMONWEALTH EDISON CO.	
PUBLIC SERVICE CO. OF INDIANA INC.	
INTERSTATE POWER CO.	
NIAGARA-MOHAWK POWER CORP.	
TEXAS ELECTRIC SERVICE CO.	
CLEVELAND ELEC. ILLUM. CO	
SOUTHWEST PUBLIC SERVICE CO.	
CONSOLIDATED EDISON CO. OF NY	
MISSISSIPPI POWER CO.	
LANSING BOARD OF W.E.L. COMM.	
PHILADELPHIA ELECTRIC CO.	
BOSTON EDISON CO.	
DELMARVA POWER & LIGHT CO.	
WISCONSIN POWER & LIGHT CO.	
OHIO EDISON CO.	
ST. JOSEPH LIGHT & POWER CO.	
CENTRAL ILLINOIS LIGHT CO.	
PUBLIC SERVICE CO. OF INDIANA INC.	
IMPERIAL IRRIGATION DIST.	
SOUTHERN CALIFORNIA EDISON CO.	

ELM STREET	CONSUMERS POWER CO.	55
ELRAMA	DUQUESNE LIGHT CO.	62
ENCINA	SAN DIEGO GAS & ELECTRIC CO.	130
ENGLAND	ATLANTIC CITY ELECTRIC CO.	34
ENGLISH	THE UNITED ILLUMINATING CO.	155
ESSEX	PUBLIC SERVICE ELECTRIC & GAS CO.	124
ETIWANDA	SOUTHERN CALIFORNIA EDISON CO.	134
EUGENE	EUGENE WATER & ELECTRIC BD.	64
EVANS	KANSAS GAS & ELECTRIC CO.	86
EYLER	METRO EDISON CO.	93
FAR ROCKAWAY	LONG ISLAND LIGHTING CO.	89
FERMI	THE DETROIT EDISON CO.	150
59TH STREET	CONSOLIDATED EDISON CO. OF NY	52
FISK	COMMONWEALTH EDISON CO.	49
FITZHUGH	ARKANSAS ELECTRIC COOP CORP.	32
FORDHAM	COMMONWEALTH EDISON CO.	50
FORT CHURCHILL	SIERRA PACIFIC POWER CO.	131
FORT MARTIN	MONONGAHELA (ALLEGHENY) POWER CO.	97
FORT MYERS	FLORIDA POWER & LIGHT CO.	66
FOUR CORNERS	ARIZONA PUBLIC SERVICE CO.	31
FOX LAKE	INTERSTATE POWER CO.	80
FRENCH ISLAND	NORTHERN STATES POWER CO. (MINN.)	105
FRONT STREET	PENNSYLVANIA ELECTRIC CO.	115
GABLE STREET	HOUSTON LIGHTING & POWER CO.	75
GADSBY	UTAH POWER & LIGHT CO.	158
GADSDEN	ALABAMA POWER CO.	29
GALLAGHER	PUBLIC SERVICE CO. OF INDIANA INC.	123
GALLATIN	TENNESSEE VALLEY AUTHORITY	143
GANNON	TAMPA ELECTRIC CO.	141
GARDNER	NEVADA POWER CO.	99
GASTON	SOUTHERN ELECTRIC GENERATING CO.	136
GENOA (NUCLEAR)	DAIRYLAND POWER COOPERATIVE	57
GENOA #3	DAIRYLAND POWER COOPERATIVE	57
GEORGE NEAL	IOWA PUBLIC SERVICE CO.	82
GEYSERS	PACIFIC GAS & ELECTRIC CO.	114
GIDEON	LOWER COLORADO RIVER AUTH.	92
GILBERT	NEW JERSEY POWER & LIGHT CO.	100
GILL	KANSAS GAS & ELECTRIC CO.	86
GLEN LYN	APPALACHIAN POWER CO.	30
GLENARM	PASADENA LIGHT & POWER DEPT.	115
GLENDALE	GLENDALE PUBLIC SERVICE DEPT.	70
GLENWOOD	LONG ISLAND LIGHTING CO.	89
GORGAS #2 & #3	ALABAMA POWER CO.	29

		PAGE
GORGE STEAM	OHIO EDISON CO.	106
GOUDEY	NEW YORK STATE ELECTRIC & GAS CORP.	101
GOULD STREET	BALTIMORE GAS & ELECTRIC CO.	34
GRAHAM	TEXAS ELECTRIC SERVICE CO.	145
GRAINGER	SOUTH CAROLINA PUBLIC SERVICE AUTH.	133
GRAND AVE	KANSAS CITY POWER & LIGHT CO.	84
GRAND TOWER	CENTRAL ILLINOIS P.S. CO.	40
GREEN	MISSOURI PUBLIC SERVICE CO.	96
GREEN BAYOU	HOUSTON LIGHTING & POWER CO.	75
GREEN RIVER	KENTUCKY UTILITIES CO.	87
GREENE	ALABAMA POWER CO.	29
GREENIDGE	NEW YORK STATE ELECTRIC & GAS CORP.	101
GREENWOOD	DUKE POWER CO.	61
HADDAM	CONN YANKEE ATOMIC PWR CO.	52
HAGOOD	SOUTH CAROLINA ELECTRIC & GAS CO.	132
HALE	UTAH POWER & LIGHT CO.	158
HAMILTON	HAMILTON MUNC. ELECTRIC PLT.	73
HAMMOND	GEORGIA POWER CO.	69
HANDLEY	TEXAS ELECTRIC SERVICE CO.	145
HANFORD	WASHINGTON P. POWER SUPPLY SYS.	160
HARBOR	LOS ANGELES DEPT. OF WATER & POWER	89
HARBOR BEACH	THE DETROIT EDISON CO.	150
HARLEE BRANCH	GEORGIA POWER CO.	69
HATFIELD	WEST PENNSYLVANIA POWER CO.	161
HAVANA	ILLINOIS POWER CO.	77
HAWTHORNE	KANSAS CITY POWER & LIGHT CO.	84
HAYDEN	COLORADO-UTE ELEC. ASSN.	48
HAYNES	LOS ANGELES DEPT. OF WATER & POWER	90
HELL GATE	CONSOLIDATED EDISON CO. OF NY	53
HENNEPIN	ILLINOIS POWER CO.	77
HESKETT	MONTANA-DAKOTA UTIL. CO.	97
HIBBARD	MINNESOTA POWER & LIGHT CO.	94
HICKLING	NEW YORK STATE ELECTRIC & GAS CORP.	101
HIGGINS	FLORIDA POWER CORP.	65
HIGH BRIDGE	NORTHERN STATES POWER CO. (MINN.)	104
HIGHGROVE	SOUTHERN CALIFORNIA EDISON CO.	134
HILL	CENTRAL P&L CO.	42
HILL	ASSOCIATED ELEC. COOP INC.	33
HOLLY AVE	LUBBOCK, CITY OF	92
HOLLY STREET	CITY OF AUSTIN ELECTRIC DEPT.	44
HOLTWOOD	PENNSYLVANIA POWER & LIGHT CO.	117
HOLYOKE	HOLYOKE GAS & ELECTRIC DEPT.	74
HOMER CITY	PENNSYLVANIA ELECTRIC CO.	115
HONOLULU	HAWAIIAN ELECTRIC CO. INC.	73
HOOKERS POINT	TAMPA ELECTRIC CO.	141
HOOT LAKE	OTTER TAIL POWER CO.	111
HOPKINS	TALLAHASSEE, CITY OF	141

		PAGE
HORSESHOE LAKE	OKLAHOMA GAS & ELECTRIC CO.	109
HUDSON	CONSOLIDATED EDISON CO. OF NY	53
HUDSON	PUBLIC SERVICE ELECTRIC & GAS CO.	125
HUMBOLDT BAY	PACIFIC GAS & ELECTRIC CO.	112
HUNTERS POINT	PACIFIC GAS & ELECTRIC CO.	112
HUNTINGTON BEACH	SOUTHERN CALIFORNIA EDISON CO.	134
HUNTLEY	NIAGARA-MOHAWK POWER CORP.	102
HUTCHINGS	THE DAYTON POWER & LIGHT CO.	149
HUTCHINSON	THE KANSAS POWER & LIGHT CO.	152
HUTSONVILLE	CENTRAL ILLINOIS P.S. CO.	40
INDIAN POINT	CONSOLIDATED EDISON CO. OF NY	53
INDIAN RIVER	ORLANDO UTILITIES COMM.	111
INDIAN RIVER	DELMARVA POWER & LIGHT CO.	59
INGLIS	FLORIDA POWER CORP.	65
IRVINGTON	THE TUCSON GAS & ELECTRIC CO.	155
JAMES RIVER	CITY UTIL. OF SPRINGFIELD	46
JEFFERIES	SOUTH CAROLINA PUBLIC SERVICE AUTH.	133
JENNISON	NEW YORK STATE ELECTRIC & GAS CORP.	101
JOHNSONVILLE	TENNESSEE VALLEY AUTHORITY	143
JOHNSTON	PACIFIC POWER & LIGHT CO.	114
JOLIET	COMMONWEALTH EDISON CO.	50
JONES	SOUTHWESTERN PUBLIC SERVICE CO.	138
JONES STREET	OMAHA PUBLIC POWER DIST.	110
JOPPA	ELECTRIC ENERGY INC.	64
JORDAN	UTAH POWER & LIGHT CO.	158
JOSLIN	CENTRAL POWER AND LIGHT CO.	43
KAHE	HAWAIIAN ELECTRIC CO. INC.	73
KAHULUI	HAWAIIAN ELECTRIC CO. INC.	74
KAMMER	OHIO POWER CO.	107
KANAWHA RIVER	APPALACHIAN POWER CO.	30
KAPP	INTERSTATE POWER CO.	80
KARN	CONSUMERS POWER CO.	55
KAW	KANSAS CITY BOARD OF PUBLIC UTILS.	85
KEARNY A	PUBLIC SERVICE ELECTRIC & GAS CO.	125
KEARNY B	PUBLIC SERVICE ELECTRIC & GAS CO.	125
KENDALL SQUARE	CAMBRIDGE ELEC. LIGHT CO.	37
KENNEDY	JACKSONVILLE ELECTRIC LIGHT PLT.	83
KENT AVENUE	CONSOLIDATED EDISON CO. OF NY	53
KERN	PACIFIC GAS & ELECTRIC CO.	113

		PAGE
KEYSTONE	PENNSYLVANIA ELECTRIC CO.	115
KEYSTONE	CENTRAL ILLINOIS LIGHT CO.	40
KINCAID	COMMONWEALTH EDISON CO.	50
KING	NORTHERN STATES POWER CO. (MINN.)	104
KINGSTON	TENNESSEE VALLEY AUTHORITY	143
KNOX, LEE	SOUTHWESTERN ELECTRIC POWER CO.	139
KRAMER	NEBRASKA PUBLIC POWER SYS.	99
KYGER CREEK	OHIO VALLEY ELECTRIC COOP.	108
KYRENE	SALT R. PROJ. AGR. IMPR. PWR. DIST.	130
L STREET	BOSTON EDISON CO.	36
LA PALMA	CENTRAL P&L CO.	43
LABADIE	UNION ELECTRIC CO.	157
LAKE CATHERINE	ARKANSAS POWER & LIGHT CO.	33
LAKE CREEK	TEXAS POWER & LIGHT CO.	146
LAKE HIGHLAND	ORLANDO UTILITIES COMM.	111
LAKE HUBBARD	DALLAS POWER & LIGHT CO.	58
LAKE PARKER	LAKELAND LIGHT & WATER DEPT.	88
LAKE PAULINE	WEST TEXAS UTILITIES CO.	162
LAKE SHORE	CLEVELAND ELEC. ILLUM. CO	47
LAKE UNION	SEATTLE DEPT. OF LIGHTING	131
LAKE WORTH	LAKE WORTH LIGHT & WATER DEPT.	87
LAKEROAD	ST. JOSEPH LIGHT & POWER CO.	140
LAKESIDE	WISCONSIN ELECTRIC POWER CO.	164
LAKESIDE	SPRINGFIELD WATER LIGHT & POWER DEPT.	140
LANSING	INTERSTATE POWER CO.	80
LAREDO	CENTRAL P&L CO.	42
LARGE	CENTRAL TELE & UTIL. CORP - W PWR DIV.	43
LAUDERDALE	FLORIDA POWER & LIGHT CO.	67
LAWRENCE	NORTHERN STATES POWER CO. (MINN.)	104
LAWRENCE	THE KANSAS POWER & LIGHT CO.	152
LAWTON	PUBLIC SERVICE CO. OF OKLAHOMA	127
LEE	CAROLINA POWER & LIGHT CO.	38
LEE	DUKE POWER CO.	61
LELAND OLDS	BASIN ELECTRIC POWER COOP	35
LEON CREEK	CITY P. S. BD. SAN ANTONIO	45
LEWIS & CLARK	MONTANA-DAKOTA UTIL. CO.	98
LEWIS CREEK	GULF STATES UTILITIES CO.	73
LIEBERMAN	SOUTHWESTERN ELECTRIC POWER CO.	139
LINCOLN	NEBRASKA PUBLIC POWER SYS.	99
LINCOLN	PACIFIC POWER & LIGHT CO.	114
LINDEN	PUBLIC SERVICE ELECTRIC & GAS CO.	125
LITTLE GYPSY	LOUISIANA POWER & LIGHT CO.	90
LONE STAR	SOUTHWESTERN ELECTRIC POWER CO.	139
LONG BEACH	SOUTHERN CALIFORNIA EDISON CO.	134
LONGVIEW	COWLITZ COUNTY PUB UTIL DST #1	122
LORDSBURG	COMMUNITY PUBLIC. SERVICE CO.	51
LOUISIANA NO. 1	GULF STATES UTILITIES CO.	71

	PAGE
LOUISIANA NO. 2	72
LOVETT	111
LYNCH	32
LYNNWAY	92
MAD RIVER	106
MANCHESTER STREET	153
MANDALAY	135
MARION	125
MARKET STREET	100
MARSHALL	61
MARTINEZ	113
MARTINS CREEK	117
MARYSVILLE	150
MASON	41
MAYNARD	82
MCDONOUGH	69
MCKEE RUN	60
MCMANUS	69
MCMEEKIN	132
MERAMEC	156
MERCER	126
MEREDOSIA	40
MERRIMACK	124
MIAMI	67
MIAMI FORT	148
MICHIGAN CITY	103
MICHOUD	101
MIDDLETOWN	152
MILESBURG	160
MILLER	37
MILLIKEN	102
MILLSTONE #1	94
MINNESOTA VALLEY	104
MISSION ROAD	46
MISSOURI AVENUE	34
MISSOURI CITY	98
MISTERSKY	59
MITCHELL	108
MITCHELL	103
MITCHELL	70
MITCHELL	161
MOHAVE	135
MOLINE	81
MONROE	97
MONROE	151
MONTICELLO	105
MONTROSE	85
GULF STATES UTILITIES CO.	
ORANGE & ROCKLAND UTIL. INC.	
ARKANSAS POWER & LIGHT CO.	
MASSACHUSETTS ELECTRIC CO.	
OHIO EDISON CO.	
THE NARRAGANSETT ELECTRIC CO.	
SOUTHERN CALIFORNIA EDISON CO.	
PUBLIC SERVICE ELECTRIC & GAS CO.	
NEW ORLEANS PUBLIC SERVICE INC.	
DUKE POWER CO.	
PACIFIC GAS & ELECTRIC CO.	
PENNSYLVANIA POWER & LIGHT CO.	
THE DETROIT EDISON CO.	
CENTRAL MAINE PWR CO.	
IOWA PUBLIC SERVICE CO.	
GEORGIA POWER CO.	
CITY OF DOVER	
GEORGIA POWER CO.	
SOUTH CAROLINA ELECTRIC & GAS CO.	
UNION ELECTRIC CO.	
PUBLIC SERVICE ELECTRIC & GAS CO.	
CENTRAL ILLINOIS P.S. CO.	
PUBLIC SERVICE CO OF NEW HAMPSHIRE	
FLORIDA POWER & LIGHT CO.	
THE CINCINNATI GAS & ELECTRIC CO.	
NORTHERN INDIANA PUBLIC SERVICE CO.	
NEW ORLEANS PUBLIC SERVICE INC.	
THE HARTFORD ELECTRIC LIGHT CO.	
WEST PENNSYLVANIA POWER CO.	
BRAZOS ELECTRIC POWER COOP INC.	
NEW YORK STATE ELECTRIC & GAS CORP.	
MILLSTONE POINT COMPANY	
NORTHERN STATES POWER CO. (MINN.)	
CITY P. S. BD. SAN ANTONIO	
ATLANTIC CITY ELECTRIC CO.	
N. W. ELECTRIC POWER COOP. INC.	
DETROIT PUBLIC LIGHTING COMM.	
OHIO POWER CO.	
NORTHERN INDIANA PUBLIC SERVICE CO.	
GEORGIA POWER CO.	
WEST PENNSYLVANIA POWER CO.	
SOUTHERN CALIFORNIA EDISON CO.	
IOWA-ILLINOIS GAS & ELECTRIC CO.	
MONROE, CITY OF	
THE DETROIT EDISON CO.	
NORTHERN STATES POWER CO.	
KANSAS CITY POWER & LIGHT CO.	

		PAGE
MONTVILLE	THE CONNECTICUT LIGHT & POWER CO.	148
MOORE	SOUTHWEST PUBLIC SERVICE CO.	137
MOORELAND	WESTERN FARMERS ELECTRIC COOP.	163
MORAN	BURLINGTON ELEC. LIGHT DEPT.	71
MORGAN CREEK	TEXAS ELECTRIC SERVICE CO.	145
MORGANTOWN	POTOMAC ELECTRIC POWER CO.	121
MORRO BAY	PACIFIC GAS & ELECTRIC CO.	113
MORROW	CONSUMERS POWER CO.	54
MOSELLE	SOUTH MISSISSIPPI ELEC PWR ASSOC	133
MOSES	ARKANSAS POWER & LIGHT CO.	33
MOSS LANDING	PACIFIC GAS & ELECTRIC CO.	113
MOUNT STORM	VIRGINIA ELECTRIC & POWER CO.	159
MOUNT TOM	HOLYOKE WATER POWER CO.	74
MOUNTAIN CREEK	DALLAS POWER & LIGHT CO.	57
MULLERGRN	CENTRAL TELE & UTIL. CORP - W PWR DIV.	44
MUNICIPAL	MORGAN CITY, LA.	98
MUSKINGUM	OHIO POWER CO.	107
MUSTANG	OKLAHOMA GAS & ELECTRIC CO.	109
MYSTIC	BOSTON EDISON CO.	36
NATCHEZ	MISSISSIPPI POWER & LIGHT CO.	96
NAUGHTON	UTAH POWER & LIGHT CO.	158
NECHES	GULF STATES UTILITIES CO.	72
NELSON	GULF STATES UTILITIES CO.	72
NELSON DEWEY	WISCONSIN POWER & LIGHT CO.	165
NEOSHO	KANSAS GAS & ELECTRIC CO.	86
NEW BOSTON	BOSTON EDISON CO.	37
NEW CASTLE	PENNSYLVANIA POWER CO.	118
NEWMAN	GARLAND MUNICIPAL UTILITIES	68
NEWMAN	EL PASO ELECTRIC CO.	63
NICHOLS	SOUTHWEST PUBLIC SERVICE CO.	138
NILES	OHIO EDISON CO.	106
NINE MILE	LOUISIANA POWER & LIGHT CO.	90
9 MILE POINT	NIAGARA-MOHAWK POWER CORP.	103
NOBLESVILLE	PUBLIC SERVICE CO. OF INDIANA INC.	123
NORTH LAKE	DALLAS POWER & LIGHT CO.	58
NORTH MAIN	TEXAS ELECTRIC SERVICE CO.	145
NORTH OAK CREEK	WISCONSIN ELECTRIC POWER CO.	164
NORTH OMAHA	OMAHA PUBLIC POWER DIST.	110
NORTH TEXAS	BRAZOS ELECTRIC POWER COOP INC.	37
NORTHEAST	KANSAS CITY POWER & LIGHT CO.	85
NORTHEASTERN	PUBLIC SERVICE CO. OF OKLAHOMA	127
NORTHPORT	LONG ISLAND LIGHTING CO.	89
NORTHSIDE	JACKSONVILLE ELECTRIC LIGHT PLT.	83
NORWALK HARBOR	THE CONNECTICUT LIGHT & POWER CO.	149
NUCLA	COLORADO-UTE ELEC. ASSN.	48
NUECES BAY	CENTRAL P&L CO.	42

PAGE

OAK CREEK	WEST TEXAS UTILITIES CO.	162
OCOTILLO	ARIZONA PUBLIC SERVICE CO.	31
OHIO RIVER	SOUTHERN INDIANA G. E. CO.	136
OLEUM	PACIFIC GAS & ELECTRIC CO.	113
OLINGER	GARLAND MUNICIPAL UTILITIES	68
OPELOUSAS #2	CITY OF OPELOUSAS	110
ORMOND BEACH	SOUTHERN CALIFORNIA EDISON CO.	136
OSAGE	OKLAHOMA GAS & ELECTRIC CO.	109
OSWEGO	NIAGARA-MOHAWK POWER CORP.	102
OTTAWA	LANSING BOARD OF W.E.L. COMM.	88
OWENSBORO #1	OWENSBORO MUNICIPAL UTIL.	112
OYSTER CREEK	JERSEY CENTRAL POWER & LIGHT CO.	84
PADDYS RUN	LOUISVILLE GAS & ELECTRIC CO.	91
PAINT CREEK	WEST TEXAS UTILITIES CO.	162
PALATKA	FLORIDA POWER & LIGHT CO.	67
PALO SECO	PUERTO RICO WATER RESOURCES AUTH.	128
PARADISE	TENNESSEE VALLEY AUTHORITY	143
PARISH	HOUSTON LIGHTING & POWER CO.	76
PARKDALE	DALLAS POWER & LIGHT CO.	58
PATERSON	NEW ORLEANS PUBLIC SERVICE INC.	100
PATHFINDER	NORTHERN STATES POWER CO. (MINN.)	106
PAWTUCKET	BLACKSTONE VALLEY ELECTRIC CO.	36
PEACH BOTTOM	PHILADELPHIA ELECTRIC CO.	119
PENNSALT	THE DETROIT EDISON CO.	150
PERMIAN BASIN	TEXAS ELECTRIC SERVICE CO.	145
PERRY	INDIANAPOLIS POWER & LIGHT CO.	79
PERSON	PUBLIC SERVICE CO. OF NEW MEXICO	122
PETERSBURG	INDIANAPOLIS POWER & LIGHT CO.	79
PHILLIPS	DUQUESNE LIGHT CO.	62
PHILO	OHIO POWER CO.	108
PHOENIX	ARIZONA PUBLIC SERVICE CO.	31
PICWAY	COLUMBUS & S OHIO ELECTRIC CO.	48
PINEVILLE	KENTUCKY UTILITIES CO.	87
PIQUA	PIQUA MUNICIPAL POWER PLANT	120
PITTSBURG	PACIFIC GAS & ELECTRIC CO.	114
PLANT #3	LAKELAND LIGHT & WATER DEPT.	88
PLANT NO. 2	LUBBOCK, CITY OF	92
PLANT X	SOUTHWEST PUBLIC SERVICE CO.	138
POINT BEACH	WISCONSIN ELECTRIC POWER CO.	165
PORT EVERGLADES	FLORIDA POWER & LIGHT CO.	67
PORT JEFFERSON	LONG ISLAND LIGHTING CO.	89
PORT WASHINGTON	WISCONSIN ELECTRIC POWER CO.	164
PORT WENTWORTH	SAVANNAH ELECTRIC & POWER CO.	131
PORTLAND	METRO EDISON CO.	93
PORTSMOUTH	VIRGINIA ELECTRIC & POWER CO.	159
POSSUM POINT	VIRGINIA ELECTRIC & POWER CO.	159
POSTON	COLUMBUS & S OHIO ELECTRIC CO.	48

		PAGE
POTOMAC RIVER	POTOMAC ELECTRIC POWER CO.	121
POTRERO	PACIFIC GAS & ELECTRIC CO.	114
POWERTON	COMMONWEALTH EDISON CO.	50
PRAGER	PUBLIC SERVICE CO. OF NEW MEXICO	122
PRAIRIE CREEK #4	IOWA ELECTRIC LIGHT & POWER CO.	81
PRAIRIE CREEK #1-3	IOWA ELECTRIC LIGHT & POWER CO.	81
PRESQUE ISLE	UPPER PENINSULA GEN. CO.	157
PRITCHARD	INDIANAPOLIS POWER & LIGHT CO.	79
PUEBLO	CENTRAL TELE & UTIL. CORP. - SO. COLO. PWR. DIV.	44
PULLIAM	WISCONSIN PUBLIC SERVICE CORP.	166
PURDOM	TALLAHASSEE, CITY OF	140
QUINDARO #2	KANSAS CITY BOARD OF PUBLIC UTILS.	85
QUINDARO #3	KANSAS CITY BOARD OF PUBLIC UTILS.	85
RATTS	INDIANA STATEWIDE REC	74
RAVENSWOOD	CONSOLIDATED EDISON CO. OF NY	54
REDONDO	SOUTHERN CALIFORNIA EDISON CO.	135
REED	DUQUESNE LIGHT CO.	62
REEVES	PUBLIC SERVICE CO. OF NEW MEXICO	122
REEVES AVENUE	VIRGINIA ELECTRIC & POWER CO.	159
REID	BIG RIVERS RURAL ELECTRIC COOP	36
RICHMOND	PHILADELPHIA ELECTRIC CO.	119
RIDGELAND	COMMONWEALTH EDISON CO.	51
RIO GRANDE	EL PASO ELECTRIC CO.	63
RIO PECOS	WEST TEXAS UTILITIES CO.	162
RIPLEY	KANSAS GAS & ELECTRIC CO.	86
RITCHIE	ARKANSAS POWER & LIGHT CO.	33
RIVER CREST	TEXAS POWER & LIGHT CO.	146
RIVER ROUGE	THE DETROIT EDISON CO.	151
RIVERBANK	OKLAHOMA GAS & ELECTRIC CO.	110
RIVERBEND	DUKE POWER CO.	61
RIVERSIDE	NORTHERN STATES POWER CO. (MINN.)	104
RIVERSIDE	HOLYOKE WATER POWER CO.	74
RIVERSIDE	SAVANNAH ELECTRIC & POWER CO.	131
RIVERSIDE	IOWA-ILLINOIS GAS & ELECTRIC CO.	81
RIVERSIDE	BALTIMORE GAS & ELECTRIC CO.	35
RIVERTON	EMPIRE DIST. ELECTRIC CO.	64
RIVERTON	POTOMAC EDISON CO. (VA.)	120
RIVERVIEW	SOUTHWEST PUBLIC SERVICE CO.	138
RIVESVILLE	MONONGAHELA (ALLEGHENY) POWER CO.	97
RIVIERA	FLORIDA POWER & LIGHT CO.	67
ROBINSON	HOUSTON LIGHTING & POWER CO.	75
ROBINSON	CAROLINA POWER & LIGHT CO.	38
ROCHESTER 3	ROCHESTER GAS & ELECTRIC CORP.	129

		PAGE
ROCHESTER 7	ROCHESTER GAS & ELECTRIC CORP.	129
ROCHESTER 13	ROCHESTER GAS & ELECTRIC CORP.	129
ROCK RIVER	WISCONSIN POWER & LIGHT CO.	166
RODEMACHER	CITY OF LAFAYETTE UTIL. SYSTEM	45
ROSWELL	SOUTHWEST PUBLIC SERVICE CO.	138
ROWE	YANKEE ATOMIC ELECTRIC CO.	166
ROXBORG	CAROLINA POWER & LIGHT CO.	39
SABINE	GULF STATES UTILITIES CO.	72
SABROOKE	COMMONWEALTH EDISON CO.	51
SAGINAW RIVER	CONSUMERS POWER CO.	55
SAGUARO	ARIZONA PUBLIC SERVICE CO.	32
SALEM HARBOR	NEW ENGLAND POWER CO.	100
SAMMIS	OHIO EDISON CO.	107
SAN ANGELO	WEST TEXAS UTILITIES CO.	162
SAN BERNARDINO	SOUTHERN CALIFORNIA EDISON CO.	135
SAN JUAN	PUERTO RICO WATER RESOURCES AUTH.	128
SAN ONOFRE	SOUTHERN CALIFORNIA EDISON CO.	135
SANFORD NEW	FLORIDA POWER & LIGHT CO.	66
SAXTON	PENNSYLVANIA ELECTRIC CO.	116
SAYREVILLE	JERSEY CENTRAL POWER & LIGHT CO.	84
SCATTERGOOD	LOS ANGELES DEPT. OF WATER & POWER	90
SCHILLER	PUBLIC SERVICE CO OF NEW HAMPSHIRE	124
SCHOLTZ	GULF POWER CO.	71
SCHUYLKILL	PHILADELPHIA ELECTRIC CO.	119
SEAHOLM	CITY OF AUSTIN ELECTRIC DEPT.	44
SEMINOLE	OKLAHOMA GAS & ELECTRIC CO.	110
74TH STREET	CONSOLIDATED EDISON CO. OF NY	52
SEVIER	TENNESSEE VALLEY AUTHORITY	143
SEWARD	PENNSYLVANIA ELECTRIC CO.	116
SEWAREN	PUBLIC SERVICE ELECTRIC & GAS CO.	126
SHAWNEE	TENNESSEE VALLEY AUTHORITY	144
SHAWVILLE	PENNSYLVANIA ELECTRIC CO.	116
SHELDON	NEBRASKA PUB PWR DISTRICT	56
SHERMAN CREEK	CONSOLIDATED EDISON CO. OF NY	54
SHIPPINGPORT	DUQUESNE LIGHT CO.	62
SIBLEY	MISSOURI PUBLIC SERVICE CO.	96
SILVER GATE	SAN DIEGO GAS & ELECTRIC CO.	130
SIOUX	UNION ELECTRIC CO.	156
SIXTH STREET	IOWA ELECTRIC LIGHT & POWER CO.	80
SMITH	OWENSBORO MUNICIPAL UTIL.	111
SMITH	GULF POWER CO.	71
SMITH	THE POTOMAC EDISON CO.	154
SOMERSET	MONTAUP ELECTRIC CO.	98
SOUTH BAY	SAN DIEGO GAS & ELECTRIC CO.	130
SOUTH COAST	PUERTO RICO WATER RESOURCES AUTH.	128
SOUTH MEADOW	THE HARTFORD ELECTRIC LIGHT CO.	152
SOUTH OAK CREEK	WISCONSIN ELECTRIC POWER CO.	164

		PAGE
SOUTH STREET	THE NARRAGANSETT ELECTRIC CO.	154
SOUTHEAST	NORTHERN STATES POWER CO. (MINN.)	105
SOUTHSIDE	JACKSONVILLE ELECTRIC LIGHT PLT.	83
SOUTHWARK	PHILADELPHIA ELECTRIC CO.	120
SOUTHWESTERN	PUBLIC SERVICE CO. OF OKLAHOMA	127
SPORN	CENTRAL OPERATING CO.	42
SPRINGDALE	WEST PENNSYLVANIA POWER CO.	161
ST. CLAIR	THE DETROIT EDISON CO.	151
STAMFORD	THE HARTFORD ELECTRIC LIGHT CO.	152
STANTON	PENNSYLVANIA POWER & LIGHT CO.	117
STANTON	UNITED POWER ASSOC.	157
STATE LINE	COMMONWEALTH EDISON CO.	49
STATE STREET	WESTERN MASSACHUSETTS ELECTRIC CO.	163
STATION B	SAN DIEGO GAS & ELECTRIC CO.	130
STATION L	PORTLAND GENERAL ELECTRIC CO.	120
STEEL	THE UNITED ILLUMINATING CO.	155
STERLINGTON	LOUISIANA POWER & LIGHT CO.	91
STONEMAN	DAIRYLAND POWER COOPERATIVE	57
STOUT	INDIANAPOLIS POWER & LIGHT CO.	79
STRYKER	TEXAS POWER & LIGHT CO.	147
STUART	THE DAYTON POWER & LIGHT CO.	149
SUNBURY	PENNSYLVANIA POWER & LIGHT CO.	118
SUNRISE	NEVADA POWER CO.	99
SUTHERLAND	IOWA ELECTRIC LIGHT & POWER CO.	81
SUTTON	CAROLINA POWER & LIGHT CO.	39
SUWANNEE	FLORIDA POWER CORP.	66
SWEATT	MISSISSIPPI POWER CO.	95
TAIT	THE DAYTON POWER & LIGHT CO.	149
TANNERS CREEK	INDIANA & MICHIGAN ELECTRIC CO.	78
TAUNTON	TAUNTON MUNICIPAL LIGHTING PLT.	142
TECHE	CENTRAL LOUISIANA ELECTRIC CO.	41
TECUMSEH	THE KANSAS POWER & LIGHT CO.	153
TIDD	OHIO POWER CO.	108
TIGER	DUKE POWER CO.	61
TITUS	METRO EDISON CO.	93
TORONTO	OHIO EDISON CO.	107
TRACY	SIERRA PACIFIC POWER CO.	131
TRADINGHOUSE	TEXAS POWER & LIGHT CO.	147
TRENTON CHANNEL	THE DETROIT EDISON CO.	151
TRINIDAD	TEXAS POWER & LIGHT CO.	147
TULSA	PUBLIC SERVICE CO. OF OKLAHOMA	128
TURKEY POINT	FLORIDA POWER & LIGHT CO.	68
TURNER	FLORIDA POWER CORP.	65
TUTTLE	CITY P. S. BD. SAN ANTONIO	46
12TH STREET	VIRGINIA ELECTRIC & POWER CO.	160
TWIN BRANCH	INDIANA & MICHIGAN ELECTRIC CO.	78
TYRONE	KENTUCKY UTILITIES CO.	87

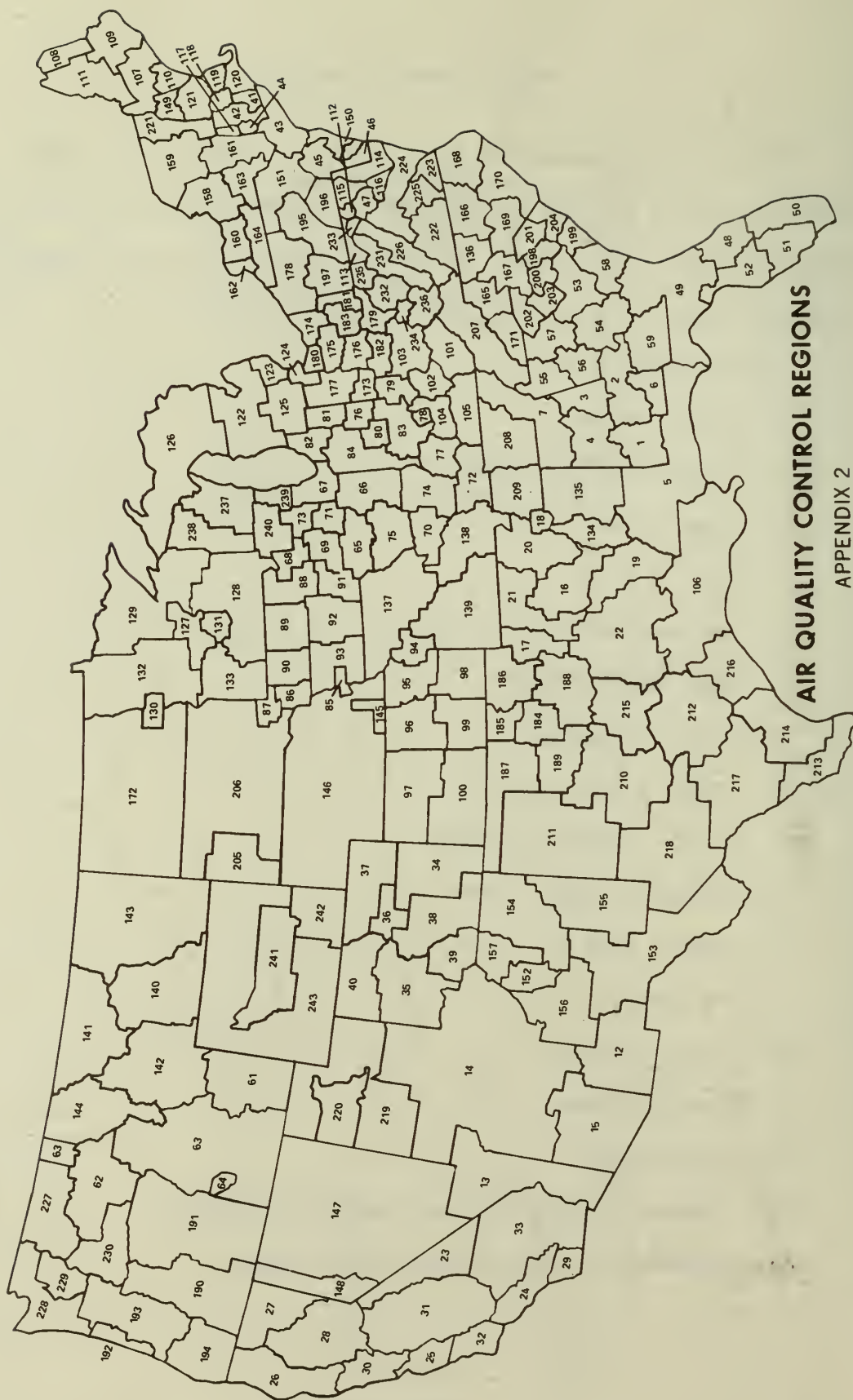
		PAGE
URQUHART	SOUTH CAROLINA ELECTRIC & GAS CO.	132
VALLEY	LOS ANGELES DEPT. OF WATER & POWER	90
VALLEY	TEXAS POWER & LIGHT CO.	147
VALLEY	WISCONSIN ELECTRIC POWER CO.	165
VALMONT	PUBLIC SERVICE CO. OF COLORADO	127
VENICE #1	UNION ELECTRIC CO.	156
VENICE #2	UNION ELECTRIC CO.	156
VERMILION	ILLINOIS POWER CO.	77
VICTORIA	CENTRAL P&L CO.	43
VIENNA	DELMARVA POWER & LIGHT CO. OF MD.	58
WABASH RIVER	PUBLIC SERVICE CO. OF INDIANA INC.	123
WAGNER	BALTIMORE GAS & ELECTRIC CO.	34
WAIAU	HAWAIIAN ELECTRIC CO. INC.	73
WALLACE	CENTRAL ILLINOIS LIGHT CO.	41
WARREN	PENNSYLVANIA ELECTRIC CO.	116
WARRICK	SOUTHERN INDIANA G. E. CO.	136
WATEREE	SOUTH CAROLINA ELECTRIC & GAS CO.	132
WATERSIDE	CONSOLIDATED EDISON CO. OF NY	54
WATSON	MISSISSIPPI POWER CO.	95
WATTS BAR	TENNESSEE VALLEY AUTHORITY	144
WAUKEGAN	COMMONWEALTH EDISON CO.	51
WEADOCK	CONSUMERS POWER CO.	56
WEATHERSPOON	CAROLINA POWER & LIGHT CO.	39
WEBSTER	MASSACHUSETTS ELECTRIC CO.	93
WEBSTER	HOUSTON LIGHTING & POWER CO.	76
WELEETKA	PUBLIC SERVICE CO. OF OKLAHOMA	128
WERNER	JERSEY CENTRAL POWER & LIGHT CO.	84
WEST END	THE CINCINNATI GAS & ELECTRIC CO.	148
WEST SPRINGFIELD	WESTERN MASSACHUSETTS ELECTRIC CO.	163
WESTON	WISCONSIN PUBLIC SERVICE CORP.	166
WESTPORT	BALTIMORE GAS & ELECTRIC CO.	35
WHARTON	HOUSTON LIGHTING & POWER CO.	76
WHITTING	CONSUMERS POWER CO.	56
WICHITA FALLS	TEXAS ELECTRIC SERVICE CO.	146
WIDOWS CREEK A	TENNESSEE VALLEY AUTHORITY	144
WIDOWS CREEK B	TENNESSEE VALLEY AUTHORITY	144
WILKES	SOUTHWESTERN ELECTRIC POWER CO.	139
WILL COUNTY	COMMONWEALTH EDISON CO.	51
WILLIAMSBURG	PENNSYLVANIA ELECTRIC CO.	116
WILLOW GLEN	GULF STATES UTILITIES CO.	72
WILLOW ISLAND	MONONGAHELA (ALLEGHENY) POWER CO.	97
WILMARTH	NORTHERN STATES POWER CO. (MINN.)	105
WILSON	MISSISSIPPI POWER & LIGHT CO.	95

		PAGE
WINDSOR	BEECH BOTTOM POWER CO.	35
WINNETKA	WINNETKA, VILLAGE OF.	163
WINONA	NORTHERN STATES POWER CO. (MINN.)	105
WOOD RIVER	ILLINOIS POWER CO.	77
WOODCOCK	OHIO POWER CO.	108
WYANDOTTE	THE DETROIT EDISON CO.	151
WYMAN	CENTRAL MAINE PWR CO.	41
YATES	GEORGIA POWER CO.	70
YORKTOWN	VIRGINIA ELECTRIC & POWER CO.	160
YOUNG	MINNKOTA POWER COOP.	94
YUCCA	ARIZONA PUBLIC SERVICE CO.	32
ZUNI	PUBLIC SERVICE CO. OF COLORADO	127

Water Resource Regions

The following list gives the numbers and names of the Water Resource Regions as used in the summary tables of this publication. Where the names given on the map differ from those on the summary tables, the map name is given parenthetically:

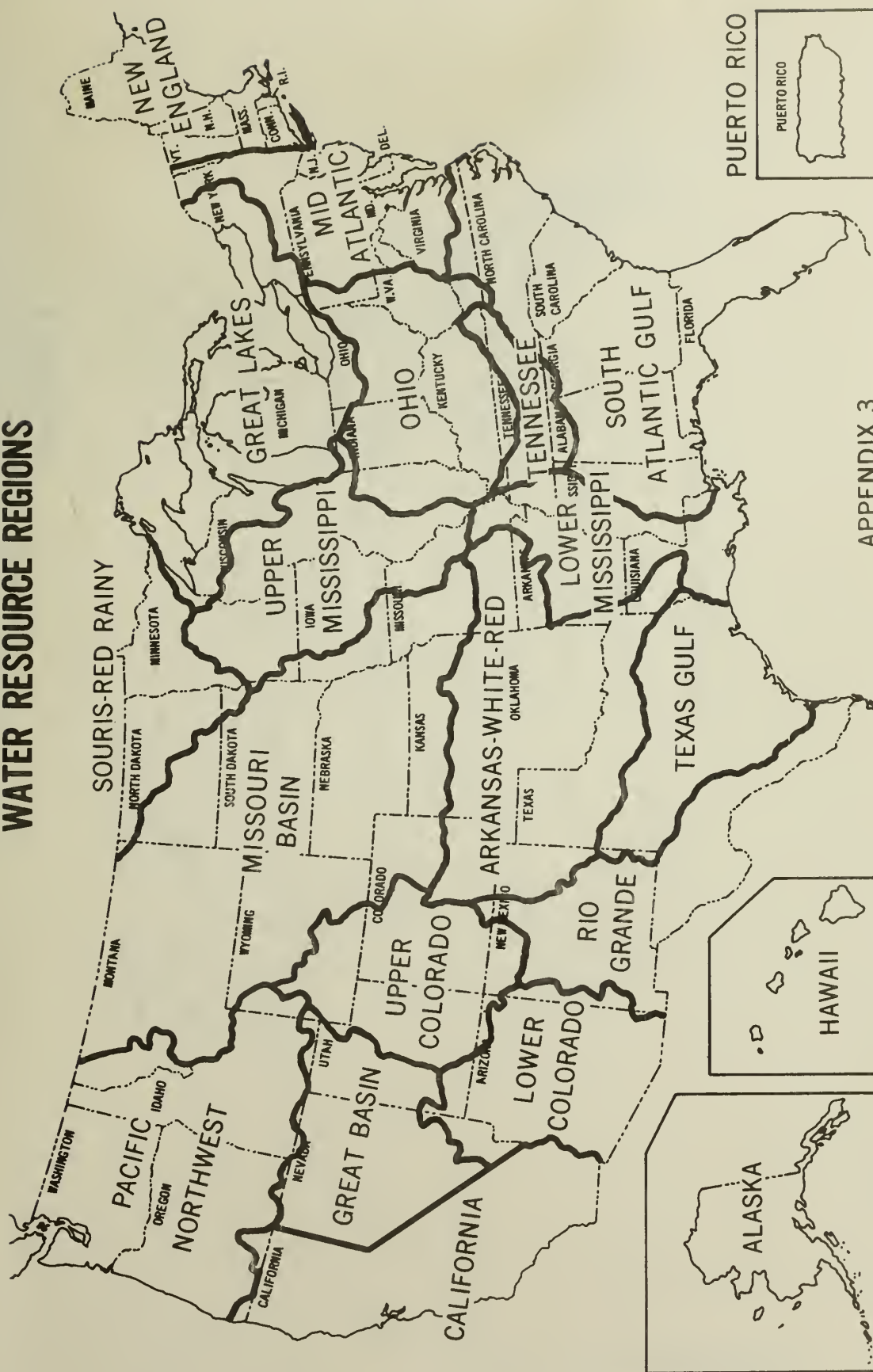
1. New England
2. Middle Atlantic
3. South Atlantic - Gulf
4. Great Lakes
5. Ohio
6. Tennessee
7. Upper Mississippi
8. Lower Mississippi
9. Souris - Red - Rainy
10. Missouri (Missouri Basin)
11. Arkansas - White - Red
12. Texas - Gulf
13. Rio Grande
14. Upper Colorado
15. Lower Colorado
16. Great Basin
17. Columbia - North Pacific (Pacific Northwest)
18. California - South Pacific (California)



AIR QUALITY CONTROL REGIONS

APPENDIX 2

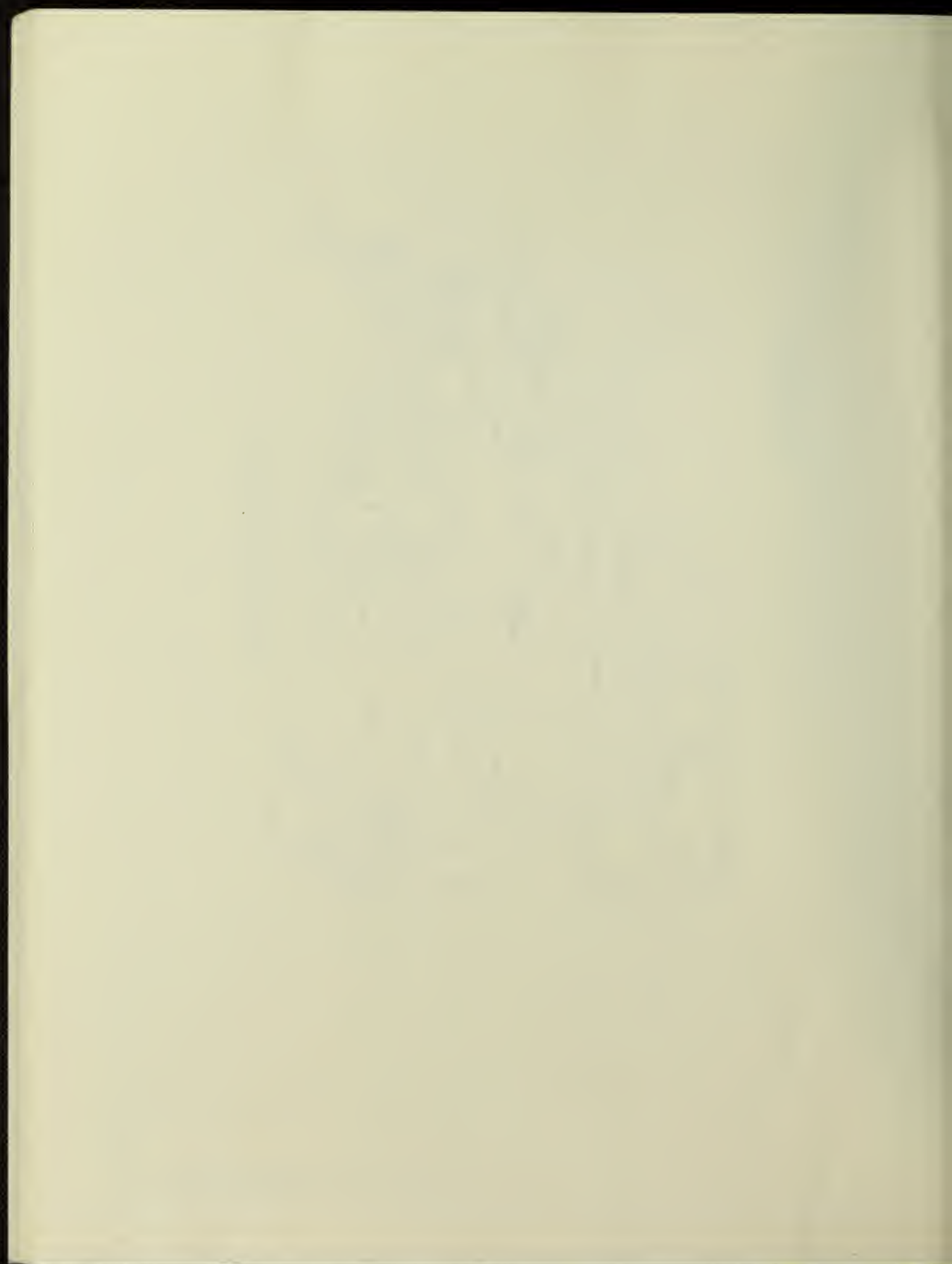
WATER RESOURCE REGIONS



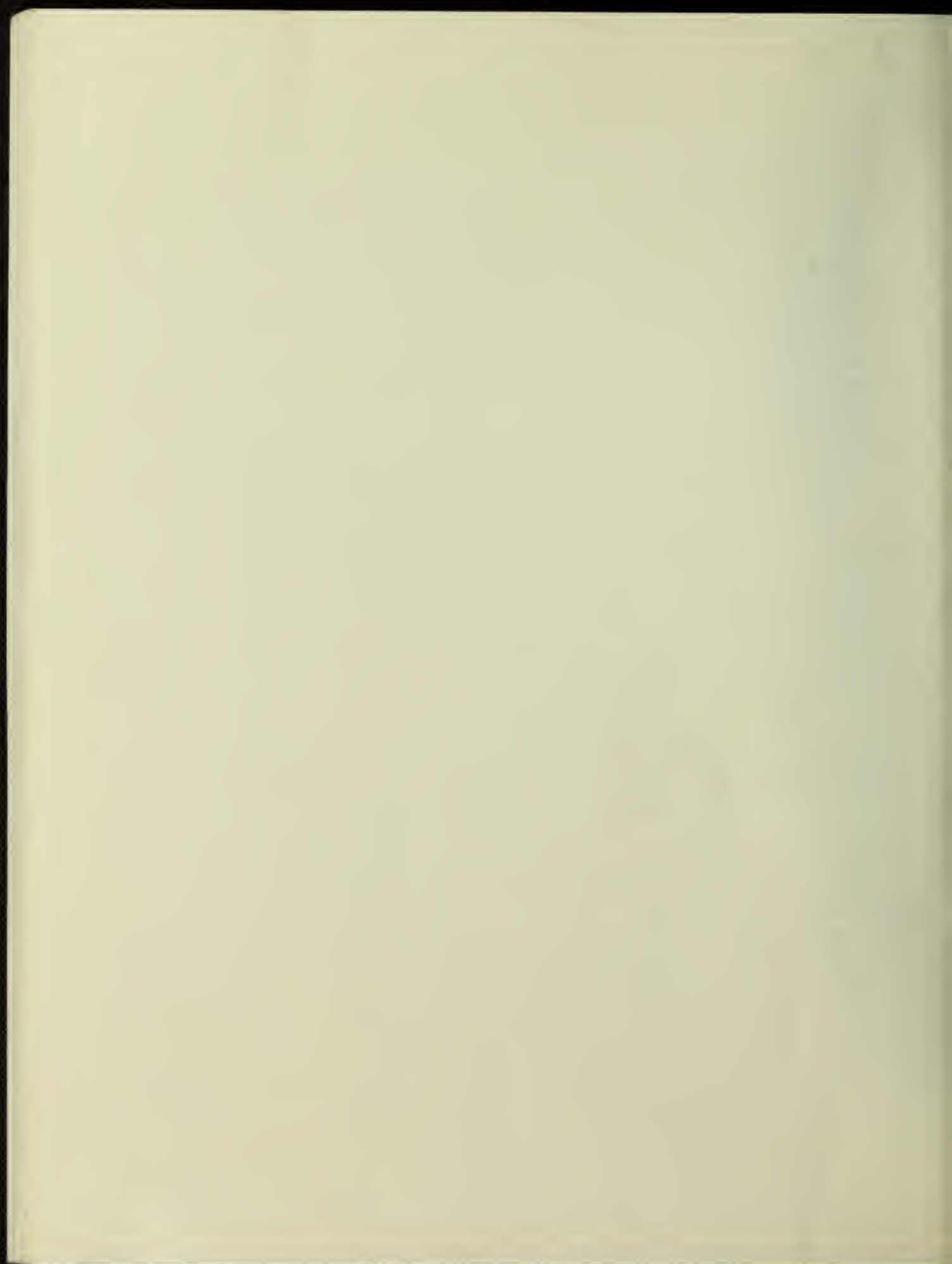
GEOGRAPHIC DIVISIONS



APPENDIX 4







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